

6.6.1. University Governance

The Assam Agricultural University in order to maintain and improving the quality in all aspects of teaching, research and extension has well structured Governance system. The Board of Management, The Academic Council, The Board of Studies of each faculty including Post-Graduate Studies, and other such bodies are very much prevalent in the University to govern various activities of the University as per the provisions in Act and Statue.

6.6.1.1. Vision, Mission and Goals: Whether the University has published vision document and has developed the plan of implementation with time frame and proposed financial arrangement? Whether the University has planned, developed, implemented, and evaluated intentional and purposeful programs/services that may facilitate students and other stakeholders of the University provide one paragraph for each.

6.6.1.1. Vision, Mission and Goals

Vision:

Provisioning of quality human resource to facilitate technology led agricultural renaissance revitalizing and rejuvenating post green revolution agriculture ensuring both production and environment sustainability targeting a minimum of 4%⁺ agricultural growth while addressing the issues of household nutritional security, farmers distress, commerce in agriculture as well as regional, national and global food crisis taking the advantage of innovative technology, market reforms and liberalization.

Mission:

To produce farm/ farmer, science and society ready quality human resources in agriculture and allied fields for appropriate man power backstopping to the sector while evolving continuously state of the art research/ technological outputs to fit into the local and regional agricultural production systems for production and profit sustainability ensuring at the same time that the fruits of the tested research results are taken to different stakeholders – farmers being the primary stake holder - using appropriate extension delivery mode and methods.

Goals

- Developing and accessing modern tools and technologies for enhancing agricultural production, increasing farm income, accelerating agricultural growth on a sustainable basis while conserving the natural resource base.
- Competitiveness building in the University and man power therein to face the current and upcoming vulnerabilities confronting agriculture sector like environmental stress, soil fatigue, advent of IP regime and globalization as well as impending food crisis while building similar competitiveness down the line among the stakeholders.

Whether the University has published vision document and has developed the plan of implementation with time frame and proposed financial arrangement?

Yes. The University's management system has published Vision document-2050 in the year 2014.

Strategies to achieve visions under Education, Research and Extension fronts covering agriculture, horticulture, veterinary, fisheries, sericulture and Home science along with the periodic plan of implementation have been highlighted in the vision document. To implement the strategic plan embodied in the vision document, the University has submitted a detail project report on "Overall agricultural development of Assam" to state department of agriculture wherein required cost estimate to meet each of the plan right from input cost to the cost of end have been prepared and submitted to State Government of Assam. Further, a detail 5 year action plan (2021-25) based on the vision document has been prepared and taken up for implementation.

Whether the University has planned, developed, implemented, and evaluated intentional and purposeful programs/services that may facilitate students and other stakeholders of the University

The University through its three wings *viz.* Teaching, Research and Extension has been contributing objective-oriented programs to facilitate both students as well stakeholders. In teaching front, new need base topics are being accommodated with student centric teaching learning methodologies. Aiming to ensuring and assuring employability, developing entrepreneurs and building skills for emerging knowledge intensive agriculture, the University has implemented Students READY (Rural Entrepreneurship Awareness Development Yojana) programs across the 9 constituent colleges. In order to understand the status of technologies adopted by farmers in rural situations and prioritize the farmers'

problems and develop skills and to facilitate attitude of working with farm families for overall development in rural area, the students are facilitated to work under Rural Agricultural Work Experience (RAWEx) and Tea Industrial Work Experience Programs (TIWEP) of 10 weeks duration as per the academic calendar. Experiential Learning Program (ELP) of 24 weeks duration to expose the students to develop competence, capability, capacity building, acquiring skills, expertise and confidence to start enterprise facilitating them to turn “Job Creators instead of Job Seekers” are being in operation in the university. In-plant and Internship programs of 10 weeks duration each preferably to final year UG students of Veterinary and Community science are being continued to enrich the practical knowledge of the students through Hands-on training with the stakeholders. Other services of Student READY programs include support to education in all the major fields of agriculture.

Proven/ tested technology percolation down to the doorstep of our farmers and other stakeholders to mitigate farm and farmers stresses is the collective/mandated responsibility of the University. This activity has been carried out through farm advisory services, training and skill development, demonstration & transfer of technology, farm information & publication, and entrepreneurship development to boost up the agricultural production and self employment. In this context, the University has been providing capacity building modules for farmers and field functionaries and delivering the state-of-the-art training on proven/refined technologies with their application methodologies. A project on “Farmer FIRST” with its motto to develop skills and capacity building of farmers towards adoption of modern technologies in agriculture for possibilities of entrepreneurial development has been carried out in the university since 2016.

The University has started imparting eighteen (18) certificate courses of 1 to 6 months duration and nine courses on (i) ‘Tea Production Technology & Management’ (ii) ‘Apparel Designing and Construction’ (iii) Bakery (iv) ‘Dyeing and Printing of Textiles’ (v) ‘Cut flower Production and Floral Design’ (vi) ‘Poultry Production Technology’ (vii) ‘Master Goat Production’ (viii) ‘Dairy Farming and Fodder Production’ and (ix) ‘Aquaculture Production Technology’ in different faculties from time to time. Many of the pass outs of these courses have started their own small scale enterprises and some have been absorbed in supervisory positions in private concerns like tea companies.

6.6.1.2. Statutes and Regulations: Provide list of Statutes and Regulations published in the gazette notification and being implemented by the University for Administration and planning.

6.6.1.2. Statutes and Regulations

A) The Statutes.

41. Subject to the provisions of this Act, the Statutes may provide for all or any of the following matters, namely:-

1. The constitutions, powers and duties of the authorities.
2. The powers, functions, duties, manner of appointment and conditions of service of the officers other than the Chancellor.
3. The designation, manner and appointment, powers and duties of officers.
4. The classification and manner of appointment of teachers and other non-teaching staff.
5. The conferment and withdrawal of honorary degrees and academic distinction.
6. The establishment, amalgamation, subdivision and abolition of faculties.
7. The establishment of departments of teaching in the faculties.
8. The salaries, emoluments, allowances and other conditions of service of the Registrar, the Comptroller, the Director of Physical Plant, the Librarians, the Director of Post-Graduate Studies, the Directors and Associate Directors of Research and Extension and the Director of Student Welfare.
9. The manner of appointment and selection of officers other than the Vice-Chancellor and their powers and terms and conditions of service.
10. The establishment of a pension or provident fund and other insurance scheme for the benefit of officers, teachers and other employees of the University and the rules, terms and conditions of such funds.
11. All other matters required to be prescribed under this Act.

B) Statutes how it was made

- 42.(1) The first Statutes with regard to matters set out in clauses (1) to (11) of section 41 shall be made by the Vice-Chancellor with the approval of the Chancellor.
2. Additional Statutes may be made subsequently on all matters requiring statutes, subject to approval by the Board and the Chancellor.
3. Statutes may be proposed by the Academic Council, the Vice-Chancellor, or the Board. In case of a Statute proposed by the Board concerning the internal working of

the University the draft Statute must be referred to the Vice-Chancellor for consideration in the University and sufficient time given to allow the University to review the proposed Statute and to make any suggestions for changes or modifications therein before final action is taken by the Board.

4. Any Statute may be repealed by action of the Board and approval of the Chancellor.
5. All Statutes made under this Act shall be published in the official Gazette.

C) Regulation

43.(1) The authorities of the University may by notifications in the official Gazette make regulations consistent with the Act and the Statutes.

2. Every authority of the University shall make regulations providing for the giving of notice to the members of such authority of the date of the meetings and the business to be considered at meetings and for keeping of the record of the proceedings of the meetings.
3. The Academic Council may subject to provision under the Statute make regulations providing for course of studies, system of examinations and degrees, certificate and diplomas of the University after receiving drafts of the same from the Board of Studies concerned.
4. The Academic Council may not alter a draft received from the Board of Studies but may reject the draft or may return it to the Board of Studies for further consideration together with the suggestions for the Council. The Academic Council shall, however, be the final authority for approval of such proposal.
5. The Board may direct such amendment or amendments of any regulation made under the provisions of the Act, as it may specify and such directions shall be binding.
6. The authorities of the university may make regulations in respect of the following matter,
namely:-
 - a) The procedure of meetings of such authorities including the quorum for the transaction of business.
 - b) The holding of convocations to confer degrees and diplomas.
 - c) The conferment of honorary degrees, academic distinction and withdrawals of degrees.
 - d) The establishment and abolition of hostels maintained by the University.
 - e) The institution of fellowships, assistantships, scholarships, studentships, bursaries, medals and prizes and the conditions of award thereof.

- f) The allowances payable to members of the Board.
- g) The entrance or admission of the students to the University and their enrolment and continuance as such and the conditions and procedures for dropping students from enrolment.
- h) The fees which may be charged by the University.
- i) The courses of study to be laid down for all degrees, diplomas and certificates of the University.
- j) The conditions under which students shall be admitted to the degrees, diplomas or other courses and examinations of the University and their eligibility for the award of degrees and diplomas.
- k) The conditions for conferment of degrees and other academic distinctions.
- l) The maintenance of discipline among the students of the University.
- m) The special arrangement, if any, which may be made for residence, discipline and teaching of woman students and the prescription of special courses of study for women.
- n) The conditions of residence of students of the University and the levy of fees for residence in hostels.
- o) The recognition of management of hostels not maintained by the University.
- p) The conditions of service, remuneration and allowances including travelling and daily allowances to be paid to officers, teachers other persons employed under the University other than those mentioned in section 39.

**Authorities, their composition, powers and responsibilities of
Assam Agricultural University**

The Assam Agricultural University Act, 1968 defines the authorities, their composition, powers and responsibilities. The same is reproduced as under:

The Section 9 of the AAU Act, 1968 has defined that the following shall be the authorities of the University, namely:

1. The Board of Management;
2. The Academic Council;
3. The Board of studies of each Faculty including Post-Graduate Studies; and Such

other bodies of the University as may be declared by the Statutes to be authorities of the University.

Board of Management

Composition: The Section (10) sub-section (1) of the AAU Act, 1968 empowers the Chancellor (the Governor of the State) to constitute the Board of Management immediately after the first Vice-Chancellor was appointed. As per sub-section (2) of the Section 10 of the Act, the Board of Management of the University is to be constituted as under:

- a) The Vice-Chancellor-*Ex-Officio* Chairman;
- b) Three Secretaries to the Government of Assam, viz, the Secretary, Finance, the Secretary, Community Development Department and the Secretary, Agriculture and Veterinary;
- c) One eminent agricultural scientist with back ground of agricultural research or education to be nominated by the Chancellor;
- d) Two progressive farmers or livestock breeders;
- e) A distinguished industrialist or manufacturer having special knowledge in Agricultural Development nominated by the State Government;
- f) One outstanding woman social worker preferably having background of rural advancement nominated by the State Government;
- g) Three members of the Assam Legislative Assembly to be elected by the Assembly;
- h) Two representatives of teachers, one from teachers teaching agricultural and the other from teachers teaching Veterinary;
- i) The Director of Agriculture;
- j) The Director of Veterinary and Animal Husbandry; and
- k) A representative of Indian Council of Agricultural Research.

The official members of the Board are usually invited to attend the meetings of the Board once they assume office in the Government of Assam. The members at (c), (d), (e) and (f) are nominated by the Government of Assam for a period of 5 years. Once their term is over, the government is notified for fresh nominees. The members at (g) are nominated by the Assam Legislative Assembly and they continue to be members either upto the end of their tenure as MLA or till such time as they are allowed to be members by the Assembly. The teacher representatives are elected by the teachers for a period of 5 years. The University conducts election for the two teacher representatives. The representative from ICAR also

continues to be a member till such time as he is permitted to by the ICAR.

The Vice-Chancellor shall be the Ex-officio Chairman and the Registrar the non-member Secretary of the Board. One-third of the members of the Board shall constitute quorum for the transaction of business provided all members had been given due advance notice of the meeting.

The term of office of the non-official members shall be five years, and such a member shall be eligible to serve for more than one term.

In case of a vacancy occurring before the expiry of the terms of given number, his successor shall serve the remaining unexpired portion of his term.

The members of the Board shall not be entitled to receive any remuneration from the University except such daily and travelling allowances as may be prescribed.

Powers and responsibilities of the Board of Management: As per provisions outlined in Section (11) sub-section (1) the Board of Management of the University exercise and perform the following powers and functions, namely:

- a) to review and consider the financial requirements and estimates for the University and prove its budget;
- b) to approve the recommendations for appointment of officers, teachers and other staff of the University in the manner prescribed;
- c) to provide for the administration of any funds placed at disposal of the University for the purpose intended;
- d) to arrange for investment and withdrawal of funds of the University;
- e) to borrow money for capital improvements and make suitable arrangements for its repayment;
- f) to provide for accepting, acquiring, holding and disposal of property on behalf of the University;
- g) to direct the form and use of the common seal of the University;
- h) to appoint such committees either standing or temporary as the Board may consider necessary and determine the terms of reference thereof within the limitations of the Act or the Statutes;
- i) to determine and regulate all policies relating to the University in accordance with this Act of the Statutes;
- j) to make financial provision for instruction, teaching and training in such branches of learning and courses of study as determined by the Academic Council within the

purposes of this Act, and for Research and for the advancement and dissemination of knowledge;

- k) to provide for establishment and maintenance of colleges, hostels, laboratories, experimental farms and other facilities necessary for carrying out the purposes of this Act;
- l) to make provision for instituting and conferring degrees, diplomas, certificate and other academic distinctions;
- m) to provide for institution, maintenance and award of scholarships, fellowships, studentships, medals, prizes, etc.
- n) to accept on behalf of the University trust, bequests and donations;
- o) to meet at such times and in such places as it considers necessary, provided that it shall hold regular meetings at every two months and at least half of such meetings shall be held at same branch of the University; and
- p) to exercise such other powers and perform such other duties not inconsistent with this Act or Statutes as may be necessary for carrying out the purpose of the Act.

Besides the above powers and functions, the Board also enjoys the following power as per Section (11) subsection (2).

The Board may for purposes of consultation invite any person having experience or special knowledge on any subject under consideration to attend its meetings. Such person may speak in and otherwise take part in the proceedings of such meetings but shall not be entitled to vote at any such meetings. Any person so invited shall be entitled to such allowances for attending the meeting as may be prescribed.

Academic Council

Composition: As per Section 12 subsection (2) of the AAU Act, 1968, the Academic Council shall consist of the following members, namely:

- a) The Vice-Chancellor, *Ex-officio* Chairman,
- b) The Deans of the various faculties,
- c) The Director of Research,
- d) The Director of Extension
- e) The Director of Student Affairs,
- f) The head of one department from each college to be selected by the respective colleges in the manner prescribed,

- g) The Registrar-*Ex-officio* Secretary,
- h) The Director of Colleges of Basic Science and Humanities,
- i) The Chief Librarian,
- j) The Director of Post-Graduate Studies, and
- k) Such other members as may be prescribed,

Two members as may be co-opted by the Academic Council to secure adequate representation of different fields of agriculture.

Powers and responsibilities of the Academic Council: The Section (12) subsection (1) of the AAU Act, 1968 provides for the responsibility of the Academic Council. As per the Act the Academic Council shall be in-charge of the academic affairs of the University and shall, subject to the provision of the Act and the Statutes, superintend, direct and control and be responsible for the maintenance of standards of instructions, education and examinations and other matters connected with the conferment of degrees or award of diplomas, certificate and shall exercise such other powers and perform such other duties as may be conferred or imposed on it by the Statutes. It shall advise the Vice-Chancellor on all academic matters.

The Section 13 of the AAU Act, 1968 provides for the powers, functions and duties of the Academic Council. As per the provisions of the Act,

1. The Academic Council shall, subject to the provision of this Act and the Statutes have the power by regulations of prescribing all courses of study and determining curricula,
and shall have general control on teaching and other educational programmes within the University and shall be responsible for the maintenance of standards thereof.
2. It shall have powers to make regulations consistent with this Act and the Statutes relating to all academic matters subject to its control and to amend or repeal such regulations.
3. In particular and without prejudice to the generality of the foregoing power, the Academic Council shall have power :-
 - a) To advise the Board on all academic matters including the control and management of libraries,
 - b) To make recommendations for the institutions of professorships, readerships, teacherships, teaching assistantship and other teaching posts including posts in research and extension and in regard to the duties thereof.
 - c) To formulate, modify or revise schemes for the constitution or reconstitution of

- departments of teaching, research and extension education,
- d) To make regulations regarding the admission of students to the University and determine the number of students to be admitted,
 - e) To make regulations relating to the course of study leading to degrees, diplomas and certificates,
 - f) To make regulations relating to the conduct of examinations and to maintain and promote standards,
 - g) To make recommendations regarding Post-Graduate teaching, research and extension education,
 - h) To make recommendations regarding the qualifications to be prescribed for teachers in the University, and
 - i) To exercise such other powers and perform such other duties as may be conferred or imposed on it by or under the provision of this Act.

Board of Studies

The University has six faculties, *viz.*, Agriculture, Horticulture, Veterinary Science, Home Science, Fishery Science and Sericulture. Each of the faculties has a Board of Studies at the faculty level. The Statutes of the University provides for composition, powers and functions of the Board of Studies of each faculty.

Composition: The Board of studies shall be constituted in accordance with sub-section (3) of Section 14 of the Act. The Dean will preside. In his absence, the Members present shall elect a Chairman from amongst the Heads of Departments. All questions to be considered in a meeting of Board of Studies shall be decided, by a majority of votes of the members present. The Chairman of the Board Shall be entitled to vote and if the votes, be divided he shall have a second or casting vote. At the meeting of a Board of Studies two third members shall form a quorum.

Powers and duties: As per provisions of the Statutes of the University the Board of Studies shall exercise all the powers and perform all the duties conferred on it by the Assam Agricultural University Act. It will be the duty of such Board to:

- i. propose to the Academic Council, courses of study for the various programme of instructions offered in the faculty concerned.
- ii. propose to the Academic Council, the curricula, in the Faculty and advise the Council in regard to all questions referred to it regarding the Syllabi for various

- under graduate and post-graduate programmes, and
- iii. review from time to time standard of teaching and evaluation of students and guide students scholastic programmes in the faculty concerned and propose new rules or charges in existing rules to the Academic Council

University Committee for Students' Welfare

The Statutes of the University provides for constitution of a University Committee for Students' Welfare as an apex body for looking into various aspects of students' welfare.

Composition: The University Committee for Students' Welfare shall consist of the following:

- (a) One of the Deans of the Faculties to be nominated by the Vice-Chancellor by rotation for a period of one year-Chairman.
- (b) Other Deans of the Faculties-Members
- (c) One teacher from each Faculty to be nominated by the Dean concerned for a period of two years in rotation-Members.
- (d) General Secretaries of the Colleges/ Universities Students' Society -Members.
- (e) Two Students' members from each Faculty to be nominated by the Dean concerned in consultation with the Students' Societies for a period of one year-Members.
- (f) Deputy Directors of Student Welfare-Members.
- (g) One of the Deputy Directors of Student' Welfare to be nominated by the Vice-Chancellor for a period of one year-Member-Secretary.

The Vice-Chancellor shall be a permanent invitee to any meeting of the University Committee for Students' Welfare.

Powers and responsibilities: The University Committee for Students' Welfare shall:

- a) Formulate its rules of business.
- b) Allocate funds for various activities of Students' Welfare relating to inter University or any other external affairs.
- c) Co-ordinate the activities of the different Campus Committees for Students' Welfare. Advise the Vice-Chancellor on affairs relating to Student' Welfare.

Campus Committee for Students' Welfare

Besides the University Committee for Students' Welfare, the Statutes of the

University also provides for constitution of a Campus Committee for Students' Welfare at each of the campuses of the University.

Composition: The Campus Committee for Students' Welfare shall consist of the following:

- a) The Dean or one of the Deans of the Campus to be nominated by the Vice-Chancellor shall act as the Chairman.
- b) Other Dean (s) of the respective Campus (if any) shall be members.
- c) Three teachers from each Faculty to be nominated by the Dean concerned by rotation for a period of one year shall be members.
- d) Two Hostel Wardens from each Faculty to be nominated by the Dean for one year shall be members.
- e) General Secretaries of the Students' Societies of the Colleges of the Campus concerned shall be members.
- f) Four student members from each faculty to be nominated by the Dean concerned in consultation of Students' Society for a period of one year as members.
- g) Deputy Director of Students' Welfare of the Campus shall act as the member-Secretary.

Powers and responsibilities: The Campus Committee for Students' Welfare shall

- a) Allocate funds for various Students' Welfare Activities
- b) Consider and advise on matters relating to the Welfare and discipline of students.

Research Advisory Committee

The Statutes of the University provides for constitution of a research Advisory Committee to supervise the research activities of the University.

Composition: The Research Advisory Committee consisting of the following members:

- i. Vice-Chancellor as Chairman
- ii. Director of Research (Agri) as Member Secretary
- iii. Deans of Faculties
- iv. Director of Extension
- v. Director of Agriculture, Govt. of Assam
- vi. Director of Veterinary and Animal Husbandry, Govt. of Assam
- vii. Director of Post-Graduate Studies
- viii. Associate Directors of Research
- ix. Associate Director of Extension
- x. The Vice Chancellor may co-opt any other members to secure adequate representation of different fields of Agriculture.

Powers and functions: The, Committee shall advise the Chairman of Academic Council regarding

- i. the allocation of funds for research
- ii. the conditions for accepting grants and
- iii. other matters affecting the research programme of the University.

Extension Advisory Committee

The Statutes of the University also provides for constitution of Extension Advisory Committee at the University level to supervise the extension activities of the University.

Composition: Extension Education Advisory Committee shall consist of the following members:

1. Vice-Chancellor as Chairman
2. Director of Extension Education as member Secretary
3. Deans of the Colleges
4. Directors of Research
5. Director of Agriculture, Govt. of Assam
6. Director of Animal Husbandry & Veterinary, Govt. of Assam
7. Director of Panchayat and Rural Development, Govt. of Assam
8. Director of Public Instruction, Govt. of Assam

Powers and responsibilities: The Committee shall advise the Chairman of the Academic Council regarding:

- a) co-ordination of University Extension Education Programme, with the State and National programme;
- b) allocation of funds for extension education work, and
- c) ways and means of increasing the effectiveness of University's extension education programme.

6.6.1.3. University Statutory officers and their selection process: Provide list of the statutory officers sanctioned in the Act, present position, their mode of appointment (selection/nomination), joining date, tenure. Please provide the reason of those statutory officers who have not been appointed so for.

Sl. No.	Position	Name of the officer (at present)	Joining date	Tenure	Appointment through
1	The Chancellor	Prof. Jagdish Mukhi	10.10.2017	5 years	Nomination
2	The Vice Chancellor	Dr. Bidyut C. Deka	22.10.2020	5 years	Selection
3	Registrar	Shri Arpan Saikia	06.02.2017	5 Years	Nomination
4	Comptroller	Shri Keshab Sharma	04.02.2021	5 years	Selection
5	Director of Research (Agri)	Dr. Ashok Bhattacharyya	07.05.2018	5 years	Selection
6	Director of Research (Vety)	Dr. Niranjan Kalita	01.09.2018	5 Years	Selection
7	Director of Extension Education	Dr. Prasanna Kr. Pathak	01.09.2018	5 years	Selection
8	Director of Post Graduate studies	Dr. Ajit Baishya	01.09.2018	5 years	Selection
9	Director of Student Welfare	Dr. Rana Pratap Bhuyan	01.09.2018	5 Years	Selection
10	Director of Physical Plant	Mr. Deepak Gogoi	01.09.2018	5 years	Selection
11	Dean, College of Agriculture	Dr. Jayanta Deka	01.09.2018	5 Years	Selection
12	Dean, College of Vety. Science	Dr. Bibeka Nanda Saikia	01.09.2018	5 years	Selection
13	Dean, College of Community Science	Dr. Ruplekha Bora	01.09.2018	5 years	Selection
16	Associate Director of Extension Education (T)	Dr. M. Neog	28.07.2011	5 years	Selection
17	Two librarians	--	--	--	Yet to be appointed. One senior professor is acting as I/C Chief Librarian

6.6.1.4 Decentralization of power: Decentralized systems are those in which central entities play a lesser role in any or both of fiscal and administrative dimensions in the agricultural universities. The information on financial autonomy and sanctioning power to the Dean and other officers of the University shall be provided. Whether the necessary administrative powers have been delegated to the statutory officers of the University? Provide the list.

The rules for delegation of administrative and financial power – 1988 (As amended) to Dean and other officers of the university are enlisted in Schedule 1

<i>SCHEDULE-I:Statement showing the financial powers delegated to the different officers/authorities of the assam agricultural university</i>		
<i>Sl. No.</i>	<i>Nature of power</i>	<i>Deans/Director/Registrar/Comptroller/Chief Librarian</i>
5(a)	Permit officers teachers & others employees for attending Conference, meeting & other Businesses of the University and to sanction journey thereof outside the State & within India	Full powers subject to budget provision in respect of staff under his control and when the journey is made within N.E. region only or otherwise Nil
5(b)(i)	Sanction tour programme within N.E. Region and sanction of Advance TA /Pay on tour and transfer	Full powers in respect of staff under his administrative control including his own TA bills subject to the condition that the tour programme of controlling officers and approved by VC.
(ii)	Countersignature of TA Bills	Full powers in respect of staff under his administrative control including his own TA bills subject to the condition that the tour programme of controlling officers and approved by VC.
9.	Stoppage/release of increment of employees including recovery of loss from pay etc.	Full powers in respect of staff of whom he is the appointing authority
11.	To allow an employees to draw increment next above the E.B.	Full powers in respect of employees of whom he is the appointing authority.
20.	To sanction reimbursement cancellation charges unused Air/ Railways/State Transport Bus tickets	Full powers in respect of employees for whom he is the appointing authority subject to the conditions laid down as below : 1) If the cancellation is required to be done for reason beyond the control of the officers performing the journey. 2) In the interest of the Assam Agril. University.
24.	To sanction reimbursement of Medical Bills including the treatment outside the state	Full powers provided that 1. In case of treatment outside the state as per advice of the referral Medical Board, VC's approval will be required. 2. The Medical bills will have to be

		certified by the Medical Officers of the University. 3. The State Govt. rules shall be followed.
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Administrative powers delegated to all the statutory officers

A) Powers and duties of the Vice Chancellor.

20. (1) The Vice-Chancellor shall be the Principal Executive and Academic Officer of the university and ex-officio Chairman of the Board and of the Academic Council. He shall in the absence of the Chancellor preside at the Convocation of the University and confer degrees on persons entitled to receive them.
- (2) The Vice-Chancellor shall exercise general control over the affairs of the University and shall be responsible for the maintenance of discipline in the University.
- (3) The Vice-Chancellor shall ensure the faithful observance of the provisions of this Act, the Statutes and the Regulations.
- (4) The Vice-Chancellor shall be responsible for the presentation of the annual financial estimate and the annual accounts and balance sheet to the Board.
- (5) The Vice-Chancellor may take such action in an emergency as may be deemed necessary and proper. He shall in such cases and as soon as may be thereafter report his action to the authority which would ordinarily have dealt with the matter.
- (6) Where any action taken by the Vice-Chancellor under subsection 5 affects any person in the service of the University to his disadvantages, such person may prefer an appeal to the Board within thirty days from the date on which such person has notice of the action taken.
- (7) Subject to the provisions of the preceding sub-sections the Vice-Chancellor shall give effect to the orders of the Board regarding the appointments, suspension and dismissal of officers, teachers and other employees of the University.
- (8) The Vice-Chancellor shall be responsible for the proper administration of the University and for a close co-ordination and integration of teaching research and extension education.
- (9) The Vice-Chancellor shall exercise such other powers as may be prescribed for the carrying out of the purpose and provision of this Act.

B) Extraordinary powers of the first Vice-Chancellor.

21. (1) The first Vice-Chancellor shall for a period of one year from the date of his appointment or for such shorter period as may be determined by the Chancellor have the following powers-
 - (a) Subject to the approval of the Chancellor to make the first statutes to provide for functioning of the University.

- (b) With the previous approval of the Chancellor to constitute provisional authorities and bodies and on their recommendation make rules for the conduct of the work of the University.
 - (c) Subject to the control of the Chancellor to make such financial arrangement and to incur such expenditure as may be necessary to enable this Act or any part thereof to be brought into operation.
 - (d) With the sanction of the Chancellor to make such appointments as may be necessary to enable this Act or any part thereof to be brought into operation.
 - (e) With the previous sanction of the Chancellor to appoint committees that he may think necessary for discharging such of the functions as he may direct.
 - (f) Generally to exercise all or any of the powers conferred on the Board by this Act or the Statutes.
- (2) Any order passed by the Vice-Chancellor in exercise of the powers conferred on him by clauses (b), (d) and (e) of sub-section (1) Shall continue to have effect after the expiry of the period specified there under until it is modified or set aside by the authority or body competent to deal with it in accordance with the provisions of this Act.

C) Registrar.

22. (1) The Registrar shall be a whole-time officer of the University and shall be appointed by the Vice-Chancellor subject to the approval of the Board.
- (2) The Registrar shall be responsible for the due custody of the records and the common seal of the University. He shall be ex-officio Secretary to the Academic Council and shall be bound to place before it all such information as may be necessary for the transaction of business. He shall receive applications for entrance to the University and shall keep a permanent record of all courses, curricula and other information as deemed necessary.
 - (3) The Registrar shall be responsible for maintaining a permanent record of the academic performance of the students of the University including the courses taken, grades obtained, degrees awarded, prize or other distinctions won, and any other items pertinent to the academic performance of the student.
 - (4) The Registrar shall perform such other duties as may be prescribed from time to time or which may be assigned to him by the Board or the Vice- Chancellor.

C. The Comptroller.

23. (1) The Comptroller shall be a whole-time officer of the University and shall be appointed by the Vice-Chancellor subject to the approval of the Board.
- (2) The Comptroller shall manage the funds and investments of the University and shall advise in regard to its financial policy.
 - (3) The Comptroller shall be responsible to the Vice-Chancellor for the preparation of the budget and statement of accounts of the University.

- (4) The Comptroller shall be responsible to the Vice-Chancellor for ensuring that expenditure are made as authorized in the budget. when budget revision are required in the interest of expanding new programmes changed requirements and for other reasons he shall be responsible for preparing the needed revision and for expediting their appropriate approval. He may disallow any expenditure which may contravene the terms of any statute or for which provision is required to be made by a new statute.

D. The Director of Physical Plant.

24. (1) The Director of Physical Plant shall be appointed by the Vice - Chancellor with the approval of the board.

(2) The Director of Physical Plant shall have the following duties, namely:-

- (a) to make arrangements for the purchase and maintenance of machinery and other equipment necessary for the purpose of the University ;
- (b) to make arrangements for the maintenance and construction of the buildings and other structures of the University;
- (c) to be responsible for the maintenance of the lawns, grounds and gardens ot the University campus;
- (d) he shall be the general custodian of all University property ; and
- (e) such other duties as may be prescribed or as may be assigned to him by the Vice-Chancellor.

E. The Librarians.

25. (1) The Librarians shall be appointed by the Vice-Chancellor subject to the approval of the Board and shall be responsible to the Vice-Chancellor for all matters concerning the Library and the purchases maintenance of books and journals catalogue and operation of the Library.

F. The Deans of Faculties of Colleges.

26.(1) There shall be a Dean for each faculty who shall be a whole time officer and shall be appointed by the Vice-Chancellor with the approval of the Board.

- (2) The Dean shall be the Chairman of the Board of studies of that faculty and shall be responsible to the Vice-Chancellor for the faithful observance of the Statutes and regulations relating to the faculty and for the organization and conduct of those functions he shall work in close liaison with other Officers, including the Associate Deans, Directors or Associate Directors of Research and Extension and would generally work through the Heads of the Departments or the faculty.
- (3) The Deans shall have such other duties and perform such other functions as may be necessary for the proper functioning of the work of their respective faculties as assigned by the Vice-Chancellor.

G. The Director of Post Graduate Studies.

27. (1) The Director of Post-Graduate Studies shall be a whole-time officer of the university and shall be appointed by the vice-chancellor subject to the approval of the board.
- (2) The Director of Post-Graduate studies shall have the following duties namely :-
- (a) to co-ordinate Post-Graduate studies in all colleges, departments and sections of the University;
 - (b) to effect general co-ordination of post-graduate thesis research programmes with the ongoing programme of the University's Agricultural Research Services, through the Director of Agricultural Research ;
 - (c) to supervise maintenance of records pertaining to PostGraduate course, instructions and students.

H. The Director of Research and Associate Director of Research.

28. (1) There shall be a the Director of Research, and Associate Director of Research ,who shall be a whole-time salaried officer of the University responsible to the Vice-Chancellor. He shall be appointed by the Vice-Chancellor with the prior approval of the Board in accordance with the Statutes made in this respect. The Director of Research and the Associate Director of Research shall be responsible for the direction and co-ordination of research programme as set forth in section 33 of this Act and efficient working of the research stations.
- (2) The Director of Research and Associate Director of Research shall exercise such powers and perform such duties as may be conferred or imposed on him by the Statutes.

I. The Director of Extension and an Associate Director Extension.

29. (1) There shall be a Director of Extension and an Associate Director of Extension who shall be a whole-time salaried officer of the university responsible to the Vice-Chancellor. He shall be appointed by the Vice-Chancellor with the prior approval of the Board in accordance with the statutes made in this respect.
- (2) He shall be responsible for the Agricultural Ex-tension Programme as set forth in section 34 of this Act.
- (3) The Director of Extension and the Associate Director of Extension shall exercise such powers and perform such duties as may be conferred or imposed on him by the Statutes.

J. The Director of Student Welfare.

31. (1) The director of student welfare shall be a whole-time officer and shall be appointed by the vice-chancellor with the approval of the Board.
- (2) The director of student welfare Shall have the following duties, namely:--
- (a) to make arrangements of housing of students,
 - (b) to arrange programme of student counselling,

- (c) to arrange for the employment of student in accordance with the plans approved by the Vice-Chancellor,
- (d) to supervise the extra-curricular activities and look after the general needs of the students,
- (e) to assist in the placement of the graduates of the University, and
- (f) to perform such other duties as may be assigned to him by the Vice-Chancellor.

6.6.1.5. Supporting Units: Whether the University has established Maintenance cell, SC/ST Cell and Health facility and what is the present mode of functioning of these units to support the student, staff and University infrastructure?

Yes, The University has established Maintenance cell, SC/ST Cell and Health facility.

Maintenance cell:

The University has well structured maintenance cell in its main campus at Jorhat. However, maintenance services in other off-campus are looked after by the concerned head of the establishment with due approval from the higher authority. The unit carries out this repair and maintenance service by way of engaging contractual and fixed pay workers, term contracts for smooth functioning of the estate in a safe and compliant condition. One senior teacher of the College of Agriculture, Jorhat is selected by the Dean, Faculty of Agriculture to act as the Senior Estate Officer who is in overall charge of the Maintenance, Security and Transport Cell. The security personnel working in the Cell are assigned daily by the in-charge to perform duty in different hostels, farms and office buildings. They work in day and night shifts. The Dean, FA is responsible for monitoring the performance of the Cell as the Campus Director. There is a separate Directorate of Physical Plant of the University to look after various civil works; maintenance of buildings, electrical fittings and water supply system. This Directorate is responsible for construction work and is the general custodian of the physical structures / property of the University.

SC/ ST Cell

Taking the cognizance of the guidelines prescribed by the University Grants Commission (UGC), the university has constituted SC/ ST Cell to address the problems or discrepancies faced by this special categories of students and staff the in the year 2019. The primary motto of the cell is provisioning of overall welfare of downtrodden SC/ ST categories of students and staff and to monitor the guidelines issued from the MHRD, UGC and State Government from time to time. Among different other activities, the SC/ ST cell also monitor – effective implementation of reservation policies of students in the university admissions in various courses, hostel accommodations, allotment of quarters, appointments to teaching and non-teaching staff etc.

Health Facility Unit

The Medical Units of the University are located at Jorhat and Khanapara campuses that cater to the medical needs of the students, staff/employees of the University. The Unit is headed by a Senior Medical Officer who is supported by other officers and paramedical staff. The OPD also provides services to other non-employees on the payment of a nominal fee. The Unit has the provision of 24 hour emergency service. The Unit has the facilities for carrying out some tests like Blood R/E, Stool R/E, Urine R/E, ABO & Rh grouping, Blood Sugar Test, Urine Pregnancy Test, Stool occult blood, Malaria parasite test etc. The Medical unit also has a well equipped laboratory with 24 hours ambulance services. Moreover, in other establishments Doctors on part time basis have been engaged for OPD services.

6.6.1.6. Technology Support: Information on Classroom technology (e.g., technology in rooms, computer labs), online learning tools, internet/Wi-Fi connectivity, student systems (e.g., online enrolment), business applications, computer help (e.g., setup for email, firewalls) and password resets being implemented at the University level. A brief note shall be provided.

ARIS Cell is responsible for the IT sector of the University. The Cell is maintaining all the servers of the University, like Web server, DNS server, Name server, Ezproxy server, OLAT server, portal server etc. It has developed interactive dynamic web site for the University and maintains the official web site www.aau.ac.in. The University in the main campus is fully connected with the internet through fibre optic backbone, connecting each and every office premises, all the hostels and all the research units. The University is using UMS (University Management Software) for account management, salary, Human Resource Development etc. and the ARIS Cell is providing the internet connectivity to each and every office staff for the purpose. The ARIS Cell automated the admission process. The Cell developed the admission module in-house and paperless admission process is being adopted for graduate and postgraduate degree programmes for all the colleges of the University.

The information regarding the academic matters like admission of students into various programmes is disseminated to the public/candidates through press and also through the University Website well ahead in time. The detail information about admission, eligibility, selection etc. is provided to the candidates through the Information Bulletin in each academic year. After admission into a college, each student is appraised about the college, the programme and other matters by holding orientation programmes just before the commencement of the teaching programme. The students are also provided with a copy of the Academic Regulations.

Adoption/modification of any rule, regulation or policy related to academic aspects in the BoS of the colleges are informed through proceedings to the members including the students through their representative who is a member of the BoS.

Information about the colleges is also disseminated through University's Website. Any important event organized in the faculty is flushed in the website, as and when needed. The technological information, services and other facilities available for the use of farmers/other stakeholders are made available through the ATIC of the University.

There is an internet café in the Central Library, Jorhat with its internet connection through the ARIS network for providing access to the library users who are students and staff/teachers. The Internet helps users in getting information relating to academic and various other relevant matters.

Regarding online teaching delivery to students across the 9 constituent colleges, a total 1886 online classes have been conducted.

**Students attending Online Classes across Nine constituent colleges in
Assam Agricultural University till 11th April 2020**

Sl. No.	Name of Colleges	Undergraduate			Post Graduate		
		Departments	Courses	No. of students attending On-line classes	Departments	Courses	On-line classes
1	College of Agriculture, Jorhat	15	35	3315	18	130	1115
2	B.N. College of Agriculture, Biswanath Chariali	11	32	812	8	24	116
3	SCS College of Agriculture, Dhubri	12	28	79	X	X	X
4	College of Veterinary Science, Khanapara	17	22	1188	19	132	369
5	LCVSC, North Lakhimpur	17	22	473	X	X	X
6	College of Fisheries, Raha	7	38	968	6	16	166
7	College of Horticulture, Nalbari	12	28	591	X	X	X
8	College of Sericulture, Titabar	14	32	653	X	X	X
9	College of Community Science, Jorhat	5	34	1221	5	23	120
Grand total		110	271	9300	56	325	1886

6.6.1.7. Institutional Data Base and Website Update: Whether the institutional extensive database of general and specific programs in partnering with peer universities, research institutions and government agencies are available in order to facilitate a wide variety of intellectual interactions and exchanges? Mention periodicity of Website updating.

Institutional database of faculty members has been created using PHP language which requires major upgradation to facilitate collaborative partnership with peer universities and research institutes. The university website is updated each on fortnightly basis.

6.6.1.8. Interdepartmental Linkages: Provide information on whether the University is currently adopting decentralized, participatory, adaptive and multifarious demand-supply side extension research-academics approach; involving public, private and third sector (civil society) in research and extension programmes and strengthening capacity of framers, researchers and extension workers. Provide a note on interdepartmental linkages the University is currently having in practice. Is the University cultivating the collaborative culture within subject and across subjects?

The university, in order to strengthen the capacity of farmers, other stakeholders and researchers/extension workers, has implemented numbers of programs in participatory mode by involving public, private and civil society. It has convergence with various organisations for efficient technology dissemination, validation of developed technologies in larger scale and also entrepreneurship development. The university in collaboration with NABARD, USAID, SIRD etc. has been organizing a few certificate courses on specific subjects to develop entrepreneurial ability and managerial skills of the rural youth. The KVKs are also imparting skill development and vocational training in collaboration with other organisations to create technically competent manpower for disseminating technical knowhow and business skills of the rural youth. The 23 KVKs of the university are playing the role of bridging organisations in percolating the need based farmers' friendly technologies for better supporting the agricultural extension system rendering its service towards technology backstopping in rural farm sector of the state. With a motto to strengthen the capacity of farmers to equip them with recent technological knowhow in agricultural and allied sectors, the AAU is working in close association with Oil India Ltd., Numaligarh Refinery Ltd., Petroleum Conservation Resource Association for better technology dissemination and adoption at farmer's field. The university is implementing World Bank funded Assam Agri Business Rural Infrastructure Project (APART) in collaboration with ARIASP, Assam and IRRI, Philippines with the objective of enabling agri enterprise development, facilitating agro cluster development and fostering market led production. Due to adequate fund support and involvement of more partners in demonstration of improved practices, a few positive impacts are – involvement of more farmers towards farming, adoption of technologies uniformly, improved farm- mechanization; besides imparting strong monitoring and evaluation system in extension, research and academic fronts. Recently, the AAU has initiated an innovative project entitled "Aamar Gaon Aamar Gaurav" wherein direct interface between scientists/faculties with the farmers to foster convergence between Assam Agricultural University and other departments of the state and centre shall be executed for successful implementation of

different schemes in agriculture and rural sectors in order to transform the rural economy of the state.

Through implementation of Norwegian Institute of Bio-economy (NBIO) Funded Project (Norway Govt.) on “Building Climate Resilience of Indian Smallholders through Sustainable Intensification and Agro ecological Farming Systems” to strengthen Food and Nutrition Security, AAU has adopted 2 (Two) Village Knowledge Centres (VKC) in Sivsagar and Golaghat districts of Assam. VKC has been providing various services like audio conferencing, Voice Message dissemination and editing technique, Video Conferencing, Need based Knowledge through *Whats App* group, Plant Clinic, Farmers Helpline number, etc. with the involvement of different specialists across various disciplines.

The project “Participatory Technology Assessment for Enhancing Farming System Productivity and Developing Entrepreneurship for Sustainable Rural Livelihood (commonly known as Farmer FIRST)” is currently being implemented in Titabor and Nakachari of Jorhat district with an aim to facilitate participatory assessment of existing farming systems and integrating them to enhance farm income, efficient utilization and conservation of farm resources in Agri-Horti-Livestock sector. Also aimed at developing small agriculture-based enterprise in potential farm units, strengthen existing entrepreneurs through skill development, establishing linkage and access to information, technology, input and market by the participating farmers. Over the last 4 years of project implementation, about 2000 farmers participated in 60 different interventions covering an area of about 300 ha.

Under AAU-DRMR collaborative project on “Augmentation of agricultural productivity in tribal areas of Assam”, altogether 105 numbers of demonstrations on “Quality seed production of Short Duration High Yielding Mustard (Variety NRCHB-101)” was conducted covering 47 numbers of villages of Majuli, Tinsukia, Dhemaji, Udalguri, KarbiAnglong, Kokrajhar districts of Assam during 2019-20.

With active participation of the farmers, a multi disciplinary team (Agronomy, Soil Science, Horticulture, Ext. Education, Entomology) of the University conducted numbers of demonstrations under Oil India Ltd. Funded Project on Kharif paddy (Variety Ranjit, Shraboni and Chikon) at Khowang, Rahmoria and Nepaligaon covering around 20.0 ha area involving 105 beneficiaries. The university in participatory approach with the farmers produced 111.6 quintals of foundation and 5781.44 quintals of certified seeds of new and promising varieties of rice (Ranjit sub1, Bahadur sub1, Swarna sub1, Shraboni, Gitesh,

Numoli, KetekiJoha, Aghoni Bora, Joymoti, Kanaklata, Dishang, Luit, , etc.), lentil (HUL 57), black gram (PU-31, IPU02-43, SBC47), rapeseed and mustard (M-27, TS36, TS38, TS 46, TS 67) during 2019-20.

Following the concept of Social Engineering/ Farmers Participatory Approach, mass campaigning programme for the adult management of *L. mansueta* was conducted in Majuli river island of Assam during 2019-20 with the involvement of 400+ farmers from 40 different Lepidiota Management Groups (LMG) with active participation of district administration, state Department of Agriculture, NGOs etc. This mass campaigning programme received overwhelming response and was exceedingly successful leading to massive collection and killing of about 1.74 lakhs of beetles.

Besides, the University has signed a no of MoU/ MoA with our various organizations like NESAC, NERIWALM and many NGOs like MOKSHA, AASRY CONCEOT FOODS etc. for participatory Extension research and Academic activities.

There is strong collaboration mechanism for intra and inter Departmental research, academic and extension activities.

6.6.1.9 Monitoring Mechanism: Whether the University is following comprehensive curriculum monitoring mechanism including teachers' self reflection, surveys on teaching effectiveness, lesson observation, assignment inspection, examination papers review, appraisal system, and curriculum evaluation.

The university has well defined comprehensive curriculum monitoring system in all its 6 faculties viz., Agriculture, Horticulture, Veterinary Science, Home Science, Fishery Science and Sericulture and each of the faculties has a Board of Studies (BoS), one of the authorities of the University and Dean of the concerned faculty acts as Chairman of the board. All the academic issues like - curriculum monitoring and evaluation, lesson observation, examination papers review including teachers' teaching performance etc. are discussed in the Board and recommendations adopted in the board are placed in Academic Council (superior authoritative body) for necessary approval. A few of the duty of the Board mentioned in the statutes of the university is to:

1. propose to the Academic Council, courses of study for the various programme of instructions offered in the faculty concerned.
2. propose to the Academic Council, the curricula, in the Faculty and advise the Council in regard to all questions referred to it regarding the Syllabi for various under graduate and post-graduate programmes, and
3. review from time to time standard of teaching and evaluation of students and guide students scholastic programmes in the faculty concerned and propose new rules or changes in existing rules to the Academic Council

Academic Regulations for both UG and PG are prepared based on the recommendations made by the Board of Studies of different faculties and thereafter approved by the Academic Council of the University. The Academic Regulations adopted since 1969 was first amended in 1989 and subsequently in 2003, 2008, 2010 and in 2017. At present, the Regulations on Academic Matters up to 2016 are being followed for both UG and PG programmes.

The curricula development for the UG degree programmes in Agriculture, Horticulture, Sericulture, Community Science and Fishery Science is based on the national pattern of syllabus suggested by the Dean's Committee. The course curricula prescribed by the Veterinary Council of India is followed in Bachelor of Veterinary Science and Animal Husbandry programme. Curriculum development and revision are done as per the norms set

by ICAR/VCI and also in consonance with the regional needs. After obtaining the draft curriculum from different departments on the courses to be offered by each department, the same is forwarded to the Syllabus Committees of the faculties for its comments. Upon receiving the comments and other inputs from the committee the same is sent back to the respective departments for modifications. The modified version of the course curriculum is placed before the Board of Studies for discussion and then forwarded to the Academic Council for approval. The Academic Council comprises of all the statutory officers of the University and nominated senior teacher members from teaching, research and extension of all faculties of the University. In addition to in-house, two members may be co-opted by the Council from outside the University system to secure adequate representation of different fields of Agriculture.

The revised curricula for Post Graduate Degree Programme in the Faculty of Agriculture, Veterinary, Horticulture, Sericulture and Faculty of Community Science were implemented within the time frame suggested by the ICAR/VCI.

Following the guidelines of ICAR, the University has implemented self scoring appraisal system the faculties principally involved in Teaching, Research and Extension which the individual teachers across faculties, research establishments and KVKs need to fill their activity-wise performance and submit to the employers through concerned head of the establishment on or before 31st March of each year.

Regarding the assessment of teaching evaluation, the university has initiated clear, rigorous and reliable performance evaluation measures for teachers across the faculties against some baseline standards. Guidelines have been prepared with the aim to appraise the teachers about the valuable feedbacks from the students that help them improve their practice, as well as a way to share information with students so that their efficiencies in teaching module is increased.

6.6.1.10. Institute Quality Assurance Cell /PME Cell: Please mention establishment and the active functioning of both the cells and kind of outcome based assignment presently being carried out through these cells.

Although there is no IQAC cell at present, but in the line with IQAC, different other cells under the establishments of teaching, research and extension have been formed separately to maintain the quality sustenance culture during the pre and post accreditation process of the university. Among these some of the important units are – Academic cells for both UG and PG studies, Education cell, Institution Management cell, ARIS cell, Training and Placement cell, Examination branch, NSS unit, IPR cell, CIF unit etc. Besides, the university has established Science and Technology cell in the year 2013 with the basic aim to coordinate with all the cells and become a driving force in channelizing and systematizing all the deliverables towards bringing academic excellence in the university. Other responsibility of the cell is to prepare reports and respond the queries from various corners including ICAR and other authoritative bodies from time to time. Quality assurance and quality enhancement in teaching, research and extension fronts besides the tasks of maintaining records, the S & T cell is the guiding force and becomes the facilitative and preparative organ of the university. This cell played an active role in compilation and preparation of accreditation reports for cycle 1 and cycle 2 of accreditation process and at present cycle of accreditation (cycle 3) also it has played immense role in completing the process with cooperation of other cells especially the Project Monitoring and Evaluation (PME) cell.

The University had established a Planning and Monitoring Unit (PMU) initially in the year 2000 which was operative till the end of 2017. The aim of the unit was to look after all the project related activities including compilation and preparation of various documents of the university and to oversee all the planning activities with full proof monitoring system. Soon after completion of 2nd cycle of accreditation process of the university, the PMU was renamed as Project Monitoring and Evaluation (PME) cell in the year 2018. The cell is presently dealing with all the matters related to working out the modalities for monitoring and evaluating the projects in operation in the university.

At present, the PME cell has been engaged in activities like compilation and preparation of different documents including accreditation and annual reports of the university. The cell besides identifying the priority areas of researchable issues emanated from the research management systems has been developing overall master plan and

contributing towards overall development of research strategies of the university. All the project related activities initially approved by the concerned establishment of teaching, research and extension education are discussed in PME forum and after final formulation of program outlines, these are recommended for submission to the appropriate authority.

6.6.1.11. Collaboration with Academic Institutions and Industry: What type and how much collaboration are currently in place with academic institutions and industry? Does the University have some more proposals for the future collaboration? Give details with road map.

Sl. No	MoU between	From	To	Remarks
1	Assam Agricultural University, Jorhat (First Party) and Institute of Horticulture Technology, Alpha-I, Greater Noida, Uttar Pradesh (Second Party)	15-09-2016	14-09-2046	For a period of 30 years, that can be renewed/reviewed only after the expiry of the lease period
2	Assam Agricultural University, Jorhat, First Party and Anand Agricultural University (AAU- Anand), Gujrat, India	11.01.2017	10.01.2022	For a period of 5 years initially but can be extended with the consents of both the parties.
3	Assam Agricultural University, Jorhat (First Party) and Edupacked, office of Globalink Research Fellowship, Jorhat (Second Party)	01.02.2019	31.01.2024	For a period of 5 years and is subject to revision or modification by mutual written agreement
4	Grijanand Chowdhury Institute of Management and Technology, Azara, Guwahati-17. and Assam Agricultural University, Jorhat	06.05.2019	05.05.2022	For a period of 3 years and may be extended for further period if both GIMT & AAU agree to the terms & condition laid for such extension
5	Assam Agricultural University (AAU), Jorhat (First Party) and Feeds Group of Institutions (FGI), Hengbung B.P.O., Kangpokpi, P.O:- Manipur.	08.07.2019	07.07.2024	For a period of 5 years and its continuance will be subject to review on expiry of agreed period
6	Assam Agricultural University, Jorhat (Signed by DR, Agri.) and Gramin Krishi Mausam Sewa, New Delhi.	16.07.2018	15.07.2024	For a period of 5 years
7	MOKSHA, an NGO, Panigaon, Itachali, Dist- Nagaon (First Party) and Assam Agricultural University, Jorhat (Second Party)	11.05.2020		---
8	Assam Agricultural University, Khanapara, Guwahati. and MothongaAgro Producer Company Ltd., NCL Complex, Bareigaon, Tamulpur, Bksa (BTAD), Assam.	30.08.2016		---
9	Registrar & Associate Dean through Biswanath College of Agriculture, AAU, Jorhat and Secretary, ICAR, New Delhi through the Director, Central Citrus Research Institute, Nagpur, Maharastra	06.03.2017		Lease Deed
10	Long term agreement entered into with Assam Agricultural University, Jorhat by the Government of India for strengthening of extension Education	2016		---

	Institute, Jorhat, Assam			
11	Assam Agricultural University (AAU), Jorhat and M/s S.D. Bajaj, SDBAGROCHEM, Sikaria Complex, GS Road, Christian Basti, Guwahati-781005	30.08.2016		---
12	Undertaking by the University and State Government of Assam. <u>Subject:-</u> Admission of students to Lakhimpur College of Veterinary Science, Joyhing, North Lakhimpur under Assam Agricultural University, Jorhat during the academic year, 2014-15	13.11.2015		---
13	Kartina University (Karu) in Kenya And Assam Agricultural University (AAU) in India	07.08.2014	06.08.2019	For a period of 5 years
14	Indian Veterinary Research Institute, Deemed University, Izatnagar-U.P. And College of Veterinary Science, Khanapara, Guwahati, Assam Agricultural University, Jorhat, Assam	01.06.2017	31.05.2022	For a period of 5 years and extendable further on mutual consent
15	Indian Council of Agricultural Research (1 st Party) And Assam Agricultural University, Jorhat for opening of CAFT Centre (2 nd Party)	31.03.2017		---
16	Assam Agricultural University (AAU) and Agriculture Skill Council of India (ASCI)	2018		---
17	National Cooperative Development Corporation (NCDC) (1 st Party) and Assam Agricultural University (AAU) (Second Party)	15.10.2020	14.10.2025	For a period of 5 years and extendable automatically for further period of five years unless terminal by either party with a notice in writing at least three (3) months prior to termination.
18	Assam Agricultural University, Jorhat, Assam And Central Agricultural University (CAU)', Imphal	29.09.2015 29.09.2020	28.09.2020	For a period of 5 years and extended another period of 5 years w.e.f. 29.09.2020
19	Indian Council of Agricultural Research, New Delhi, India and The College of Agriculture and Life Sciences Cornell University, Ithaca, New York, USA.	22.12.2005		---
20	Government of Assam and Assam Agricultural University, Jorhat, Assam	18.03.2006		---
21	Assam Agricultural University, Jorhat, Assam and Deepjyoti Dewari, Rajmai, Sivasagar	05.03.2021		---
22	AAU, Jorhat and ICAR-Central Citrus Research Institute (CCRI)), Nagpur, Maharastra	2021		---

23	Material transfer agreement between AAU & UC, DAVIS, USA	2021		---
24	Kristir Kothia, a Socio-Cultural NGO from NER and Assam Agricultural University, Jorhat, Assam	2021		---
25	Assam Cricket Association (ACA) and Assam Agricultural University, Jorhat, Assam	13.11.2020		---
26	Assam Agricultural University, Jorhat, Assam and Indian Council of Agricultural Research-CCRI	2021		---
27	National Centre for Disease Control (NCDC) and College of Veterinary Science, Khanapara	2021		---
28	Assam Agricultural University, Jorhat, Assam and Department of Biotechnology, New Delhi, Ministry of Science & Technology.	06.11.2018		---
29	Shodhanga/ Shodhgangotri (INFLI BNET) Centre and Assam Agricultural University, Jorhat, Assam	16.12.2020		---
30	NABARD and Assam Agricultural University, Jorhat, Assam National Bank for Agriculture and Rural Development.	2021		---
31	AASRY CONCEOT FOODS, Guwahati And Assam Agricultural University, Jorhat, Assam	2012-13		---
32	Indian Council of Agricultural Research, New Delhi, India and AINP on Jute b& allied fibers	2019		---
33	Assam Agricultural University, Jorhat, Assam And College of Fisheries Science, Roha, Nagaon	2016		---
34	Assam Agricultural University, Jorhat, Assam And Rupahi College, Nagaon, Assam	2015		---
35	National Institute of Agril. Extension Management NFDB & College of Fisheries, AAU, Roha (Nodal Training Institute)	2019		---
36.	ICAR- National Research Centre on Mithun, Medziphemany, Dimapur, Nagaland			---
37.	Indian Veterinary Research Institute, Izatnagar- U.P. and College of Veterinary Science, Khanapara, Guwahati, Assam Agricultural University, Jorhat , Assam	12.012016	5 yrs. w.e.f. date of signature	---

38.	Agricultural University of Athens (AUA) and Assam Agricultural University, Jorhat, India	14.08.2018	Renewed for 5 yrs.	---
39.	Umbrella Memorandum of understanding between ICAR and Host Institutions			---
40.	Assam Agricultural University and ICAR –II HR, Bangaturu	2020	For 3 yrs. w.e.f. date of signature	---
41.	Agricultural University of Athens (AUA) and Agricultural University, India. Through the under Secretary Government of India	08.09.2020	Renewed for 5 years	---
42.	ICAR – Directorate of Coldwater Fisheries Research, Bhimlal and Department of Aquaculture, College of Fisheries, AAU, Raha	01.09.2020	31.8.2021	---

COLLABORATIONS OF DBT- NORTH EAST CENTRE FOR AGRICULTURAL BIOTECHNOLOGY (DBT-NECAB)

1. Number of collaborations with institutions and industries

A) Academic institutions

i) Gene technology for grain legumes

Total number: 14

Institutions:

1. CSIRO Agriculture and Food, Canberra
2. Washington State University, USA
3. Friedrich Miescher Institute, Basel, Switzerland
4. University of California, Davis
5. Southern Cross University, Australia
6. Bose Institute, Kolkata
7. Mahatma Phule Agricultural University, Rahuri, Maharashtra
8. International Crops Research Institute for Semi-Arid Tropics (ICRISAT)
9. Indian Institute for Pulse Research, Kanpur
10. Punjab Agricultural University, Ludhiana
11. University of Agricultural Science, Dharwad
12. National Chemical Laboratory, Pune
13. National Botanical Research Institute, UP
14. Tamilnadu Agricultural University (TNAU), TN

ii) Rice Molecular Breeding

Total number: 2

Institutions:

1. University of Aberdeen, UK
2. International Rice Research Institute -South East Asia, (IRRI-SARC) Varanasi

iii) Biofertilizers and Biopesticides development and production

Total number: 5

Institutions: Satellite Labs

1. Nagaland University, Medziphema, Nagaland
2. Central Agricultural University Iroisemba, Imphal, Manipur
3. School of PG studies, CAU, Umiam, Meghalaya
4. College of Agriculture Lembucherra, Tripura
5. Mizoram University, Mizoram

iv) AdaptNET ERASMUS+

Total number: 7

Institutions:

1. Tezpur University (TU)
2. International Crops Research Institute for Semi-Arid Tropics (ICRISAT)
3. University of Agricultural Sciences Dharwad (UASD)
4. Agriculture University of Athens, Greece;
5. Academy of Athens, Greece;
6. University of Milano, Italy;
7. Polytechnic University of Marché, Italy

B) Industrial Collaborations

I. Genetic Engineering of chickpea

Total number: 1

Company: TheSungro Seeds, New Delhi.

II. Microbiology

Total number: 1

Company: Maverick Technologies, Assam

III. Biopesticides

Total number 1

Institutions: Greenvention Biotech Pvt. Ltd, Pune

2. What type and how much collaboration are currently in place with academic institutions and industry?

Current collaborations

i. Gene Technology for legumes

Total number: 7

Institutions:

1. CSIRO Agriculture and Food, Canberra
2. University of California, Davis
3. Indian Institute for Pulse Research, Kanpur
4. Punjab Agricultural University, Ludhiana
5. University of Agricultural Science, Dharwad
6. National Botanical Research Institute, UP
7. Tamilnadu Agricultural University (TNAU), TN

ii. Biofertilizers and Biopesticides development and production

Total number: 5

Institutions: Satellite Labs

1. Nagaland University, Medziphema, Nagaland
2. Central Agricultural University Iroisemba, Imphal, Manipur
3. School of PG studies, CAU, Umiam, Meghalaya
4. College of Agriculture Lembucherra, Tripura
5. Mizoram University, Mizoram

iii. AdaptNET

Total number: 7

Institutions:

1. Tezpur University (TU)
2. International Crops Research Institute for Semi-Arid Tropics (ICRISAT)
3. University of Agricultural Sciences Dharwad (UASD)
4. Agriculture University of Athens, Greece;
5. Academy of Athens, Greece;
6. University of Milano, Italy;
7. Polytechnic University of Marché, Italy

C) Industrial Collaborations

IV. Gene Technology for legumes

Total number: 1

Company: MAHYCO and Sungro Seeds, Maharashtra

V. Microbiology

Total number: 1

Company: Maverick Technologies, Assam

VI. Biopesticides

Total number 1

Institutions: Greenvention Biotech Pvt. Ltd, Pune

(Refer **Annexure 1** for detail)

3. Does the University have some more proposals for the future collaboration? Give details with road map.

New *ad hoc* projects earned by the scientists of DBT-NECAB are as follows:

1. “Development of Citrus Diagnostics and Certification Centres in NER” worth 1.43 Crores, funded by the DBT, GoI. (**Project Coordinator:** Dr.Bidyut Kr. Sarmah; **Principal Investigator:** Dr.Priyabrata Sen; **Co-PI:** Dr R Kakoti)

2. Project for Accelerated Translational Grant for Commercialization 2020, Academic Industry Translational Research (AITR). “Scale up for production and validation of mycoinsecticides singly and in combination for sustainable management of foliar and soil pests” worth 68.95 Lakhs (Project Coordinator: Dr.Bidyut K Sarmah; Principal Investigator: Dr. M. V. Deshpande, Director, Greenvention Biotech Pvt. Ltd., Pune).

3. The project on citrus diagnostic centre has already been implemented and the project on biopesticide in collaboration with Greenvention Biotech Ltd, Pune has been approved by the DBT under the ATGC programme.

4. Promotion of biotechnology in Secondary Agriculture in NE India

Collaboration with NIPB has been proposed as part of a fifth programme under DBT-NECAB in Phase III. We will systematically collect, document and secure the genome information of selected rare and underutilized fruits and vegetables from NE India, profile their biochemical properties and create viable technologies for value-based products with prospects for commercialization towards post-harvest management.

5. Collaboration with Tocklai Tea Research Institute for a Network Project under DBT, GoI

Discussions are in progress to initiate a multi-institutional project on improvement and management of tea in Assam and NE region in general.

A list of latest proposals cleared by DBT and such other organization may be highlighted.

The collaborations are aimed towards the following goals:

- I. Revenue generation:** With the technology transfer of transgenic insect resistant chickpea, Rs. 8.75 lakh was shared between DBT, GoI; FMI, Switzerland and NRCPB, New Delhi. Additional 2.5 lakh was given to AAU for the second license. Per license (License fee: 3.75 lakhs; Royalty realized: 5% upon NSV). Bioinputs developed by the DBT centre are being sold regularly and earned revenues of more than 20.0 lakhs so far.

II. Promotion of Organic Agriculture in NE India

Extension of technology generated at the DBT-NECAB across NE region: Satellite labs have been established within Assam in KVKs and in the five states of NE region to disseminate bioinputs and tissue culture technologies, development of entrepreneurship and promotion of organic agriculture. As per DBT's sanction, Rs 15.0 lakh were provided to each of the following satellite labs during 2019 for infrastructure development. In 2020, equipment purchasing process for the satellite labs has been completed and supplies of equipment have started.

III. Promotion of Climate-Smart Agriculture

Prof. B K Sarmah is the Coordinator of the AdaptNET of ERASMUS+program in India. The program aimed on the development of climate smart crops in partnership with Indian and European scientists.

The Phase –I of AdaptNET is a capacity building project, funded by the European Commission. Through this program students, project scientists and faculty member of AAU visited various European laboratories engaged in climate change research.

In addition, E-Learning laboratory has been established at AAU to raise awareness on climate change and climate-smart crop development as part of AdaptNET funded by the European Union. The courses on climate smart agriculture have been implemented by the trained scientists in respective e-labs.

The future plan is to provide independent research project to scientists involved in this program.

ANNEXURE I

Summary of the collaborations in completed, ongoing and proposed projects at DBT-NECAB.

COLLABORATORS

Collaborating organization	Programme/Project	Funding organization	Collaborator(s)
Ad hoc projects (completed)			
Washington State University, USA	Genetic improvement of chickpeas for increased productivity	The McKnight Foundation, USA	Professor T W Okita and Professor Fred Muehlbeaur
National Chemical Laboratory, Pune	- do -	- do -	Dr Vidya Gupta Dr Ashok Giri
Mahatma Phule Agricultural University, Rahuri, Maharashtra	- do -	- do -	Dr Deshmukh
Friedrich Miescher Institute, Basel, Switzerland	Agrobacterium mediated genetic transformation of chickpeas to confer protection against pod borers and stored grain pests	Indo-Swiss Collaboration in Biotechnology (Phase I)	Professor Thomas Hohn and Professor Barbara Hohn
Bose Institute, Kolkata	- do -	- do -	Dr S Das

CSIRO Agriculture and Food, Canberra	Development of transgenic chickpeas (<i>Cicer arietinum</i>) resistant to pod borer (<i>Helicoverpa armigera</i>)	- do - (Phase II)	Dr T J V Higgins
ICRISAT, Patancheru	- do -	- do - (Phase III)	DR K K Sharma and Dr H C Sharma
	Genetic Enhancement of chickpeas using a two gene strategy to confer protection against pod borers	Indo-Australia Strategic Research Fund	- Do -
ICRISAT, Patancheru	- do -	- do -	Dr H C Sharma
Southern Cross University, Australia	Collaborate and share experimental information pertaining plant genetics and genomics including genetic and genomic analysis of <i>Brassica juncea</i> (Indian mustard)		
	Establishment of Genetic transformation system for pigeonpea (<i>Cajanus cajan</i>) for the deployment of gene technology including insect protection	Kirkhouse Trust, UK.	Dr T.J. Higgins
Tocklai Tea Research Institute, Jorhat	Development of transgenic tea (<i>Camellia sinensis</i>) to confer resistance against blister blight	The Dept. of Biotechnology, GoI, New Delhi.	
MAHYCO and their sister concern the Sungro Seeds, New Delhi. (Industry)	1. Non-Exclusive License Agreement for “Insect management know-how which includes chickpea plant germplasm containing <i>CryIAc</i> gene” between MAHYCO (substituted by Sungro Seeds Pvt. Ltd.) and Assam Agricultural University, Jorhat, Assam, India on Aug 28, 2009. 2. Non-Exclusive License Agreement for “Insect management know-how which includes chickpea plant germplasm containing <i>Cry2Aa</i> gene” between MAHYCO (substituted by Sungro Seeds Pvt. Ltd.) and Assam Agricultural University, Jorhat, Assam, India on Aug 28, 2009.		
The National Institute for Plant Biotechnology (NIPB), New Delhi	Collaboration for chickpea transgenic research under Indo-Swiss Collaboration in Biotechnology programme.	Indo-Swiss project and NASF (ICAR)	Dr A Kumar Dr T R Sharma
Indian Institute for Pulse research (IIPR), Kanpur	The transgenic chickpea lines were transferred through an MTA		Dr Alok Das
Ongoing Collaborations			
University of Agricultural Science (UASD), Dharwad	- The transgenic chickpea lines were transferred through an MTA for NASF (ICAR) project - The introgression breeding of insect resistant chickpea lines developed at AAU	NASF (ICAR) The Dept. of Biotechnology, GoI, New Delhi.	Dr I S Katageri
Punjab Agricultural University (PAU), Ludhiana	- The transgenic chickpea lines were transferred through an MTA - The introgression breeding of insect resistant chickpea lines developed at AAU	The Dept. of Biotechnology, GoI, New Delhi.	Dr S Singh
National Botanical Research Institute (NBRI), UP Tamilnadu Agricultural University, (TNAU)	Understanding the molecular mechanism of defense in pigeon pea (<i>Cajanus cajan</i>), due to infestation by <i>Helicoverpa armigera</i>	The Dept. of Biotechnology, GoI, New Delhi.	Dr. Mehar Asif, Charu Lata Dr. Kokila Devi
Tezpur University (TU) International Crops Research Institute for Semi-Arid Tropics (ICRISAT) University of Agricultural Sciences Dharwad (UASD) Agriculture University of Athens, Greece; University of Milano, Italy; Polytechnic University of Marché, Italy; Academy of Athens, Greece	AdaptNET project of ERASMUS+ “Strengthening education, research and innovation for climate smart crops in India”	The EACEA, European Union	Dr Deben Baruah Dr Rajeev Varshney Dr I S Katageri Dr Andreas Voloudakis Dr Carlo Pozzi Dr Roberto Papa
University of California, Davis	Understanding the relationship between plant and insect (<i>Helicoverpa</i>) genetics and plant metabolite production due to insect pressure	The Dept. of Biotechnology, GoI, New Delhi.	Prof. Douglas R Cook
Regional Agricultural Research Station-RARS Shillongoni	Evaluation of few promising plant growth promoting bacteria in terms of growth and development in lentils	The Dept. of Biotechnology, GoI, New Delhi.	
Regional Agricultural Research Station-RARS Titabor and (ii) RARS-Lakhimpur (iii) Annapurna Seed Lending Library, Lahdoigarh, Jorhat	Evaluation of few promising plant growth promoting bacteria in terms of growth and development in rice:		
Maverick Technologies, Assam (Industry)	Improved method of brewing rice based alcoholic beverage and Commercialization		

	Partner for “ <i>Xajpani</i> ”:		
- Nagaland University, Medziphema, Nagaland - Central Agricultural University Iroisemba, Imphal, Manipur - School of PG studies, CAU, Umiam, Meghalaya - College of Agriculture Lembucherra, Tripura - Mizoram University, Mizoram	Establishment of Satellite laboratories for dissemination of bioinputs from DBT-NECAB.	The Dept. of Biotechnology, GoI, New Delhi.	
Extramural Grants			
ICAR-IARI, New Delhi; Amity University, Noida; CSIR-NBRI, Lucknow; ICAR-IVRI, Izatnagar;	- Studies on role of endophytes in variation of acaricidal properties of two acaricide producing plant species NBA22/F1 and NBA18/D1” - Efficacy evaluation of encapsulated fungal formulation for improving crop phosphorus nutrition	The Dept. of Biotechnology, GoI, New Delhi.	Dr. K. Swarnalakshmi Dr. Shoma Paul Nandi Dr. Sharad Srivastava Dr. Srikanta Ghosh
NII, New Delhi	Genetic studies to understand mitochondrial electron transport chain dysfunction using <i>Caenorhabditis elegans</i> .	The Dept. of Biotechnology, GoI, New Delhi.	Dr. Arnab Mukhopadhyay;
New Collaborations			
TERI, Guwahati	Development of Citrus Diagnostics and Certification Centres in NER	The Dept. of Biotechnology, GoI, New Delhi.	
Greenvention Biotech Pvt. Ltd., Pune (Industry)	Scale up for production and validation of mycoinsecticides singly and in combination for sustainable management of foliar and soil pests	Accelerated Translational Grant for Commercialization 2020, Academic Industry Translational Research (AITR).	Dr. M. V. Deshpande
Proposed Collaborations			
NIPB, New Delhi	Biotechnological intervention in value-chain management of underutilized fruits and vegetables for promotion of secondary agriculture	Dept. of Biotechnology, GoI, New Delhi.	Dr. A K Shasany

6.6.2.1. Academic Council

Provide the composition and date of Academic Council Meetings held in last five years along with ATR

Composition of the Academic Council

1. The Vice Chancellor: Ex- Officio Chairman
2. The Deans of all the faculties of the University
3. Director of Research (Agriculture)
4. Director of Research (Veterinary)
5. Director of Extension Education
6. Director of Students' Welfare
7. Director of Post-graduate Studies
8. Two members as may be co-opted by Academic Council to secure adequate representation of different fields of agriculture.
9. Such other members as may be prescribed.

Powers & Responsibilities of Academic Council

1. The Academic council shall subject to the provision of this Act and the Statutes have the power by regulations of prescribing all courses of study and determining curricula, and shall have general control on teaching and other educational programmes within the University and shall be responsible for the maintenance of standards thereof.
2. It shall have powers to make regulations consistent with this Act and the Statutes relating to all academic matters subject to its control and to amend or repeal such regulations.
3. In particular and without prejudice to the generality of the foregoing power, the Academic Council shall have power:
 - (a) To advise the Board on all academic matters including the control and management of libraries,

- (b) To make recommendations for the institutions of professorships, readership, teachership, teaching assistantship and other teaching posts including posts in research and extension and in regard to the duties thereof.
- (c) To formulate, modify or revise schemes for the constitution of departments of teaching, research and extension education,
- (d) To make regulations regarding the admission of students to the University and determine the number of students to be admitted.
- (e) To make regulations relating to the courses of study leading to degrees, diplomas and certificates,
- (f) To make regulations relating to the conduct of examinations and to maintain and promote standards,
- (g) To make recommendations regarding Post-Graduate teaching, research and extension education,
- (h) To make recommendations regarding the qualifications to be prescribed for teachers in the University and
- (i) To exercise such other powers and perform such other duties as may be conferred or imposed on it by or under the provision of this Act.

Year	Date of Academic Council Meetings
2016	223 rd AC- 09/05/2016, 224 th AC- 05/09/2016
2017	225 th AC- 27/02/2017, 226 th AC- 06/06/2017, 227 th AC- 11/12/2017
2018	228 th AC- 25/05/2018, 229 th AC- 12/12/2018
2019	230 th AC- 03/05/2019, Emergent AC- 05/09/2019, 231 st AC- 27/12/2019
2020	232 nd AC- 15,29 & 30 June, 2020, 233 rd AC- 04 & 10 September, 2020
2021	234 th AC- 25/01/2021 235 th AC- 22/03/2021

Report on action taken on the decisions of the 223rd meeting of the Academic Council held on 09.05.2016.

Item No.	Agenda	Action taken
4.	A.I.No.4. Holding of the 20 th Convocation of AAU.	The decision was referred to the 242 nd meeting of the Board of Management. Board approved for the same.
5.	A.I. No. 5. Consideration of the Draft Academic Calendar and Information Bulletin, 2016-17.	Accordingly, a committee was constituted and notification was issued vide No.AAU/RG/Acad-223(AT)/2016-17/1188,dated 04.07.2016.
6.	A.I.No.6. Consideration of the recommendations of the Board of Studies, Faculty of Agriculture held on 29.04.2016.	Decided as M.Sc. (Food Technology) which is as per ICAR norms.
7.	A.I.No.7. Consideration of the recommendations of the Board of Studies, Faculty of Home Science held on 18.03.2016.	The decision was conveyed to Dean, Faculty of Home Science, AAU, Jorhat vide No.AAU/RG/Acad-223(AT)/2016-17/1296,dated 18.07.2016.
8.	A.I. No.8. Consideration of the proposal received from the Dean-in-charge, Faculty of Fisheries Science for opening of MFSc. Course under the Departments of Fishery Resource Management and Fishery Engineering & Technology w.e.f. next Academic year.	A Notification Vide No. AAU/RG/Acad-223(AT)/2016-17/1202, dated 05.07.2016 was issued and students were admitted in the current academic session.

9.	A.I. No.9 Ph. D Guide-ship to ICAR scientists.	The decision was referred to the 242 nd meeting of the Board of Management and the Board approved the proposal.
10.	A.I. No10. Consideration of the recommendations of the Board of Studies, Faculty of Veterinary Science held on 10.02.2016.	Decision was carried out accordingly.
11.	A.I No. 11. Review of AAU Leave Rules.	A notification was issued vide No.AAU/RG/Acad-222(AT)/2015-16/10037, dated 10.02.2016. Only one reply was received from Dr.P.Borah, HoD (AniBT), CVSc., Khanapara.
12.	A.I.No.12. Any Other Items: 1. Consideration for introduction of non-credit course on general agriculture entitled 'Knowledge Empowerment in Agriculture' in the 4 th year 2 nd Semester in the Faculties of Fisheries Science and Home Science in the line of Faculty of Agriculture.	A notification Vide No. AAU/RG/Acad-223(AT)/2016-17/1168, Dated 04.07.2016 was issued to all concerned.

Report on action taken on the decisions of the 224th meeting of the Academic Council held on 05.09.2016.

Item No.	Agenda	Action taken
4.	A.I.No.4. Post facto approval for granting permission to take re-admission into the M.Sc (Agri) degree programme in respect of Surabhi Barman, Roll No 2015-AMJ-43.	A Notification was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3244, dated 20.10.2016.
5.	A.I. No. 5. Reservation of seat(s) for admission into B.Sc. (Seri) Programme of the University under (a)Sons/daughters of progressive farmer category. (b) Sons/daughters of the employees of the Department of Sericulture, Government of Assam category.	A Notification on constitution of the committee was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3250,dated 20.10.2016 and the committee has submitted its report vide No.AAU/FA Extn.Edn/2016-17,12927, dated 22.11.2016
6.	A.I.No.6. Admission into BVSc & AH degree programme in AAU under VCI quota.	A Notification was issued vide No.AAU/RG/Acad-224(AT)/3264, dated 20.10.2016.
7.	A.I.No.7. Post facto approval for implementation of Minimum Standards of Veterinary Education-Degree Course (BVSc & AH) Regulations,2016.	A Notification on the subject was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3271,dated 20.10.2016.
8.	A.I. No.8. Review of Medical Insurance Scheme.	The decision was communicated to the Director of Students' Welfare and Chairman of the review committee vide No.AAU/RG/Acad-224(AT)/2016-17/3281,dated 20.10.2016.

9.	A.I. No.9 Consideration of the representation submitted by Dibyajyoti Kalita, a student of BSc (Agi) programme for allowing him to avail State Merit Scholarship and stipend for RAWEP	The decision of the Council was notified vide Notification No.AAU/RG/Acad-224(AT)/2016-17/3256,dated 20.10.2016.
10.	A.I. No.10. Consideration of the proposal received from M/s Sitaram Jindal Foundation for institution of Gold Medals	A letter to the Foundation was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3282, dated 20.10.2016.
11.	A.I No. 11. Offering of Seminar – II (Minor) to the Ph D students	A notification was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3283, dated 20.10.2016.
12.	A.I.No.12. Three Credit Compulsory Supporting Course(s) in Statistics	A notification Vide No. AAU/RG/Acad-224(AT)/2016-17/3305, Dated 20.10.2016 was issued to all concerned.
13.	A.I.No.13 Implementation of the recommendations of the 5 th Deans' Committee Report	Action has been initiated /taken accordingly.
15.	Any other Items (AOI) AOI.1 Review of action against Dr.N.C.Deka, Principal Scientist (Agronomy) and others	A letter on the subject was issued to the Dean, Faculty of Agriculture, AAU, Jorhat vide No.AAU/RG/Acad-224(AT)/2016-17/3331, dated 07.12.2016.
	AOI. 3. Inclusion of Intellectual Property Right (IPR) as a Generic Elective Subject	A Notification on constitution of a committee on the subject was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3306, dated 07.12.2016.

	AOI. No. 5. Consideration of the proposal on Minimum Credit Requirement for PhD Programme in Animal Biotechnology	A Notification vide No.AAU/RG/Acad-224/2016-17/3329-3336, dated 20.10.2016 was issued.
	AOI No.6. Promotion of Asstt Professor (Stage II) under Career Advancement Scheme (CAS)	A notification on constitution of the committee was notified vide No.AAU/RG/Acad-224(AT)/2016-17, dated 1803-1811, dated 10.09.2016. The report of the committee has been received by the office and the actions are being taken soon.
	AOI. No. 7. New Academic Calendar for 1 st year BVSc & AH Programme	A notification was issued vide No.AAU/RG/Acad-224(AT)/2016-17/1792-1801, dated 10.09.2016.
	AOI. No. 8. Consideration of eligibility of Asstt Professor to guide the students pursuing Master's Degree Programme	A notification on the decision of the Council was issued vide No.AAU/RG/Acad-224(AT)/2016-17/3322-30, dated 07.12.2016.
	AOI No. 11 Higher studies leading to PhD Degree by the Research Associate/SRF/ JRF	A Notification vide No.AAU/RG/Acad-224(AT)/2016-17/3337, dated 20.10.2016 was issued.
	AOI No. 12 Incorporation of the date of Thesis Viva Voce Examination in the Provisional Certificate of the Master's and Doctoral Programme	A Notification vide No.AAU/RG/Acad-224(AT)/3351, dated 20.10.2016 was issued.
	AOI No. 13 Approval for implementation of research projects	A Notification vide No.AAU/RG/Acad-224(AT)/2016-17/3366, dated 20.10.2016 was issued.

Report on action taken on the decisions of the 225th meeting of the Academic Council held on 27.02.2017.

Item No.	Agenda	Action taken
5.	A.I. No. 5. Post-facto approval for allowing a few foreign students to repeat more than 3 'F' Grades	Letters to the ADG (HRD), AED, ICAR and the Sr. Programme Director (ISD-II), ICCR, vide No.AAU/RG/Acad-225(AT)/2016-17/835, dated 24.05.2017 and No.AAU/RG/Acad-225(AT)/2016-17/834, dated 24.05.2017 respectively were issued.
6.	A.I.No.6. Consideration of the recommendations of the Board of Studies, Faculty of Agriculture on implementation of 5 th Deans Committee.	A Notification was issued vide No.AAU/RG/Acad-225(AT)/2016-17/359, dated 20.04.2017. A letter was issued vide No.AAU/RG/Acad-225(AT)/2016-17/370,dated 20.07.2017
7.	A.I.No.7. Consideration for recommendations of the Board of Studies, Faculty of Home Science	A Notification was issued vide memo No. AAU/RG/Acad-225(AT)/2016-17/345, dated 20.04.2017. A notification was issued vide No.AAU/RG/Acad-225(AT)/2016-17/536, dated 26.04.2017 A letter was issued vide No. AAU/RG/Acad-225(AT)/2016-17/307, dated 26.04.2017

8.	Any other Item <u>AOI No. 1.</u> Extension of timeframe for submission of synopsis by the students pursuing Master Degree.	A Notification was issued vide No.AAU/RG/Acad-225(AT)/2016-17/340,dated 20.04.2017
	<u>A.O. I. No. 2.</u> Best teachers, researchers, extension workers across the Faculties	The process of selection was initiated and completed and as many as eight teachers/researchers/ extension workers of the University were awarded on the occasion of 49th Foundation Day.
	<u>A.O. I. No. 3.</u> Brainstorming session	A letter was issued vide No.AAU/RG/Acad-225 (AT)/2016-17/628-621, dated 26.04.2017.

Report on action taken on the decisions of the 226th meeting of the Academic Council held on 06.06.2017.

Item No.	Agenda	Action taken
4.	A.I.No.4. Consideration of the Academic Calendar for the year 2017-18	A Notification vide No. AAU/RG/Acad-226(AT)/2017-18/2525 dated 06.07.2017 issued and circulated.
5.	A.I. No. 5. Consideration of the Draft Information Bulletin 2017-18	The Information Bulletin has been published/uploaded accordingly.
6.	A.I.No.6. Consideration of the proposal for admission of students with BSc (Seri) degree into MSc (Agri) Programme	Notification vide No. AAU/RG/Acad-226(AT)/2017-18/4440 dated 11.08.2017 issued.
7.	A.I.No.7. 50 th Foundation Day of Assam Agricultural University	A Notification on constitution of the core committee for the purpose was issued vide No. AAU/RG/Acad-226(AT)/2017-18/2222, dated 22.06.2017.
8.	A. I. No. 8. Duration of Educational Tour undertaken by the students	Notification was issued vide No.AAU/RG/Acad-226(AT)/2017-18/4426,dated 11.08.2017
9.	<u>A. I. No.9.</u> Proposal for introduction of identification mechanism in students' certificates	Action is in process. This is also being considered for incorporation in the digital degree certificates itself.

10.	<u>A.I. No 10.</u> Recommendations of the Board of Studies, Faculty of Community Science (Formerly Home Science)	Notification has been issued vide No.AAU/RG/Acad-226(AT)/2017-18/4400, dated 11.08.2017. Notification vide No. AAU/RG/Acad-226(AT)/2017-18/4413 dated 11.07.2017 issued and circulated. Dean (CSc) may spell out the details.
11.	<u>A.I. No 11.</u> Creation of separate Departments under the Faculty of Veterinary Science	A Notification vide No. AAU/RG/Acad-226(AT)/2017-18/4453 dated 11.08.2017 issued and circulated The matter of declaring separate department is being taken up for Board's consideration.
12.	<u>A.I. No. 12</u> Equivalence of 12-year Vocational Course offered by various Boards in India with +2 stage qualification for the purpose of employment/higher studies	A Notification vide No.AAU/RG/Acad-226/2017-18/4595 dated 11.08.2017 issued and circulated
13.	<u>A.I.No. 13.</u> Issues raised by the Assistant Professors	A Notification vide No.AAU/RG/Acad-226/2017-18/4465 dated 11.08.2017 issued and circulated. A notification vide No. AAU/RG/Acad-226(AT)/2017-18/4484 dated 11.08.2017 issued and circulated.

		A Notification vide No. AAU/RG/Acad-226(AT)/2017-18/4502 dated 11.08.2017 issued and circulated. A Notification vide No. AAU/RG/Acad-226(AT)/2017-18/4519 dated 11.08.2017 issued and circulated.
14.	<u>Any Other Item</u> <u>A.O.I. No.1</u> Progress of ICAR- National Professor Programme	Progress noted
	<u>A.O.I. No 2.</u> Organization of Inter College Meet	A Notification vide No.AAU/RG/Acad-226(AT)/2017-18/4538 dated 11.08.2017 issued and circulated
	<u>A.O.I. No. 3</u> Post Doctorate Fellow Programme	A Notification vide No.AAU/RG/Acad-226(AT)/2017-18/4557 dated 11.08.2017 issued and circulated.
	<u>A.O.I. No. 4.</u> Reservation of seats in BSc (Hons) Agriculture programme for the wards of Small Tea Growers of Assam	A Notification vide No.AAU/RG/Acad-226(AT)/2017-18/4576 dated 11.08.2017 issued and circulated.

Report on action taken on the decisions of the 227th meeting of the Academic Council held on 11.12.2017.

Item No.	Agenda	Action taken
4.	A.I.No.4. Submission of the admission report of various degree programmes of the University for Academic Session 2017-18	Notification was issued vide No.AAU/RG/Acad-227(AT)/2017-18/8677 dated 17.02.2018 and action has been taken accordingly.
5.	A.I. No. 5. Consideration of the Recommendations of the Board of Studies, Faculty of Agriculture held on 29-08-2017 <i>a) Revision of Semester-wise distribution of courses</i> <i>b) Introduction of Master's Programme in Plant Breeding & Genetics at BNCA, Biswanath Chariali</i>	Notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8130 dated 06.02.2018 Notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8209 Dated 06.02.2018 Notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8362 dated 06.02.2018
6.	A.I.No.6. Consideration of the recommendations of the Board of Studies, Faculty of Fisheries Science held on 22-08-2017 <i>a) Restructuring of BFSc Syllabus</i> <i>b) ELP and RFWE Programme</i>	Notification vide No. AAU/RG/Acad-227(AT)/2017-18/8357 dated 06.02.2018 issued. Notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8349 Dated 06.02.2018

7.	A.I.No.7. Consideration for enrolment of BSc (Seri) students to pursue PG Degree Programme in various disciplines of Agriculture	A Notification issued vide No. AAU/RG/Acad-227(AT)/2017-18/8336, dated 06.02.2018. A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8321 Dated 06.02.2018.
8.	A. I. No. 8. Consideration of the Recommendations of the PG Committee meetings held on 11-09-2017 and 28-10-2017 <i>a) Clarification on allowing the PhD students to join ongoing research projects</i> <i>b) Proposal for allowing PG admission at Faculty level</i>	A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8304 dated 06.02.2018 A letter to DPGS on the Council's decision issued vide No.AAU/RG/Acad-227(AT)/2017-18/8105 Dated 06.02.2018
9.	A. I. No.9. Consideration of a University Song	A notification on constitution of a review committee issued vide No.AAU/RG/Acad-227(AT)/2017-18/6526 Dated 10.01.2018 The committee has already come up with its final recommendation and is placed as a separate agenda.

10.	A. I. No 10. Fee structure for academic documents following acceptance of NAD platform	A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/6534 Dated 10.01.2018
11.	A.I. No 11. Revised Guidelines for Best Teacher Award	A notification vide No.AAU/RG/Acad-227(AT)/2017-18/8267 dated 06.02.2018 and a letter to the DR (Agri/Vety) and the DEE issued vide No.AAU/RG/Acad-227(AT)/2017-18/8093-95 dated 06.02.2018 issued. The committee has already come up with appropriate guidelines and awards have also been conferred upon eligible teacher/researcher/extension specialist on the occasion of flagging off ceremony of the golden jubilee year of AAU on 17 th April, 2018.
12.	A.I. No. 12 Consideration of the Academic Regulations for UG Programmes of AAU	A notification vide No.AAU/RG/Acad-227(AT)/2017-18/8252 Dated 06.02.2018 issued.
13.	A.I.No. 13. Consideration of the Academic Guidelines (Amended), 2016	A notification vide No.AAU/RG/Acad-227(AT)/2017-18/8239 dated 06.02.2018 issued.
14.	A..I. No.14. Proposal for inclusion of Industrial Experience Course in MSc Programme in Food Technology	A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8230 Dated 06.02.2018
	A..I. No 15. Consideration of the recommendations of the Board of Studies, Faculty of Community Science held on 16-09-2017	A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8226 Dated 06.02.2018

	<u>A..I. No.16</u> Any other item(s) A.O.I. No. 1 Reservation of seats under <i>Ek Bharat Shrestha Bharat</i> programme	A notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8217 Dated 06.02.2018.
	A.O.I. No. 2. Representation of the AAUTA (FA) on award of non-compounded advance increments to AAU teachers with PhD under traditional system	A letter to President/Secretary of AAUTA, FA/FCSc/FVSc/FFSc issued vide No.AAU/RG?Acad-227(AT)/2017-18/8116-8119 Dated 06.02.2018 The AAUTA (FA) has already submitted a list of 4 teachers from the College of Agriculture. The matter is placed separately for consideration of the Council.
	A.O.I No. 3 Counting of past services rendered elsewhere	A Notification issued vide No.AAU/RG/Acad-227(AT)/2017-18/8285 dated 06.02.2018
	A.O.I No. 4 Status of SMS drawing a grade pay of Rs. 6000/ under KVK system	Accordingly as approved by the Vice Chancellor, a transfer order has already been issued involving 31 SMS (with GP 6000/-) to the mainstream in phase I and fresh advertisement has been floated to fill up the resultant vacancies alongwith few others.
	A.O.I No. 5 Status of AAU Leave Rules (Amended)	Accordingly, a copy of the draft leave rules framed by the committee has been submitted to the Hon'ble Vice Chancellor.
	A.O.I No. 6 Introduction of Endowment Chair	No action has so far been initiated.

	A.O.I. No 7. Fresh Appointment under TVC	The matter has been taken into consideration while floating the recent recruitment notice.
	A.O.I. No. 8 Obtaining undertaking from the Research Associates	A Notification issued vide No.AAU/RG/Acad-227/2017-18/8141 dated 06.02.2018

Report on action taken on the decisions of the 228th meeting of the Academic Council held on 25.05.2018.

Item No.	Agenda	Action taken
2.	A.I. No.2. Confirmation of the proceedings of the 227 th meeting of the Academic Council held on 11.12.2017.	Decision notified vide Memo No AAU/RG/Acad-228(AT)/2018-19/3178-94 dated 28/08/18, The committee notified vide Memo No. AAU/RG/Acad-228(AT)/2018-19/4973-88 Dated 10/10/2018 Letter issued to DDG(Agril Edn), ICAR vide Memo No.AAU/RG/Acad-228(AT)/2018-19/4989 dated 10/10/2018
4.	A.I.No.4. Consideration of the Academic Calendar for the year 2018-19	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1324-34 Dated 05/07/2018
5.	A.I. No. 5. Consideration of the Information Bulletin 2018-19	The Information Bulletin has been published/uploaded on AAU website. VCI concurrence was received in the month of July, 2018 and students were placed at LCVSc as well. The CET was conducted successfully and admission given accordingly.
6.	A.I.No.6 Consideration for research internship at University of Florida in respect of Ms. Parinda Barua, a PhD	Notification issued vide No.AAU/RG/Acad-

	Scholar under the Department of Plant Pathology	228(AT)/2018-19/2012 dated 23/07/2018.
7.	A.I.No.7. Consideration for introduction of Brajendra Chandra Borpuzari Memorial Annual Award for Inter College Drama Competition	A letter issued to the Donors vide No.AAU/RG/Acad-228(AT)/2018-19/1988 dated 23.07.2018. Consequent upon further queries by the donor, it was intimated for remittance of a one-time payment of Rs. 1 lakh together with the Running Shield vide memo No.AAU/RG/Exam-221(B)/2018-19/2657 Dated 10.12.2018 The modalities of the award are expected to be submitted by the DSW soon.
8.	A. I. No. 8. Consideration for NWAC accredited High School Diploma programme as eligible qualification for undergraduate courses	A letter was sent to DDG (Agril Edn), ICAR vide No.AAU/RG/Acad-228(AT)/2018-19/2000/23/07/2018 A gentle reminder was again issued vide letter No.AAU/RG/Exam-180/17-18/5291 dated 14.11.2018. Reply from the ICAR is still awaited.
9.	A. I. No.9. Consideration of the recommendations of the Board of Studies, Faculty of Fisheries Science, Roha (a) Introduction of PG Programmes (Two Master's and one PhD)	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1368-77 Dated 05/07/2018 Notification issued vide No.AAU/RG/Acad-

	(b) Entry qualification for admission into PhD Programme in the Department of Aquaculture	228(AT)/2018-19/1368-77 Dated 05/07/2018. The norms at (a) and (b) were followed accordingly at the time of Admission:2018
10.	A. I. No 10. Consideration for awarding non-compounded advanced increments to the teachers completing PhD Degree under traditional system.	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1335-51 Dated 05/07/2018 and the teachers got the benefits accordingly.
11.	A.I. No 11. Consideration of University Song	Letter issued vide No.AAU/RG/Acad-228(AT)/2018-19/2742-86 dated 08/08/2018. No feedback so far has been received from any corner.
12.	A.I. No. 12 Consideration of the proposals for (a) inclusion of AYUSH Disciplines for enrolment of candidates in PhD Programme and (b) Recognition of AYUSH NET for admission into PhD Degree	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1578-93 Dated 05/07/2018
13.	A.I.No. 13. Any other items AOI No. 1 Introduction of new degree programme, <i>i.e.</i> BSc (Hons) Food Nutrition & Dietetics under Faculty of Community Science	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1978-80 Dated 23/07/2018

AOI No. 2 Creation of new Departments, bifurcation/trifurcation of the Departments and re-nomenclature thereof	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1982-87 Dated 23/07/18. The proposal has been forwarded for consideration of BoM/AAU Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1353-67 dated 05/07/2018
AOI No. 3 Interchanging of courses	Notification issued vide No.AAU/RG/Acad-228(AT)/2018-19/1992-99 Dated 23/07/2018
AOI No. 4 Allowing thesis grant to PG students	Letter issued vide No.AAU/RG/Acad-228(AT)/2018-19/1973 dated 23.07.2018
AOI No. 5 RAWE training and Agro-Industrial Attachment	

Report on action taken on the decisions of the 229th meeting of the Academic Council held on 12.12.2018.

Item No.	Agenda	Action taken
3.	A.I. No.3. Report on action taken on the decisions of the 228 th meeting of the Academic Council held on 25.05.2018.	Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/3354-85 Dated 28.02.2019. Accordingly, the modalities were forwarded and the Trophy was awarded during the Inter-College Meet. Letter issued vide No.AAU/RG/Acad-229(AT)/2799 dated 13.02.2019. Relevant photographs and video clippings were incorporated by the committee and has been presented for approval of the Council as separate agenda
4.	A.I.No.4. Consideration of the Admission Report for the session 2018-19	Letter issued to the Registrars of all SAUs vide No.AAU/RG/Acad-229(AT)/2018-19/3390 dated 28.02.2019. However, no replies have been received from any of the SAUs till date. Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/3324-49 dated 28.02.2019.
5.	A.I. No. 5. Holding of 21 st Convocation of AAU	Convocation announcement circulated vide No.AAU/RG/Exam-45(XXI)/ 18-19/3181-3291 dated 21.02.2019. The date of 21 st Convocation has been fixed on 4 th May, 2019 and the details have been presented as a separate agenda, for consideration of the Council.
6.	A.I.No.6 Consideration for inclusion of Dr. Lindahl, Scientist, ILRI, Nairobi, Kenya as a member of the Advisory Committee in	Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2927-41 dated 13.02.2019.

	respect of Dr. Archana Talukdar and Dr. Aditya Barua	
7.	A.I.No.7. Consideration of the appeal for allowing Dr. Mridusmita Borthakur, SMS, KVK, Golaghat to pursue her PhD programme in AAU	Letter issued vide No.AAU/RG/Acad-229(AT)/2018-19/2890 dated 13.02.2019. The report of the committee is awaited. Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2946-62 dated 13.02.2019. No report has been submitted by the committee as off now.
8.	A. I. No. 8. Consideration of the proposals submitted by the DPGS, AAU	Letters issued vide No.AAU/RG/Acad-229(AT)/2018-19/3350, dated 28.02.2019 and No.AAU/RG/Acad-229(AT)/2018-19/3325 dated 28.02.2019. Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2877-89 dated 13.02.2019
9.	A. I. No.9. Consideration for offering of the course titled, “Educational Psychology, HDFS-122” to the 2 nd year students admitted in 1016	Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2861-76 Dated 13.02.2019.
10.	A. I. No 10. Consideration for reservation of seats in BVSc & AH Degree Programme for the wards of Veterinarians serving in the State Veterinary & Animal Husbandry Department	Letter issued to Registrar of AVC vide No.AAU/RG/Acad-229(AT)/2018-19/2857 dated 13.02.2019

11.	A.I. No 11. Post-facto approval of the Course Curricula developed by the FFSc for One-year Training Programme meant for Fishery Demonstrators	Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2842-56 dated 13.02.2019.
12.	A.I. No. 12 Consideration for waiving off tuition fee for Afghan students admitted under Afghanistan Fellowship Programme	Notification issued vide No.AAU/RG/Acad-229 (AT)/2018-19/2837-41 dated 13.02.2019.
13.	A.I.No. 13. Any other items AOI No. 1 Introduction of new degree programme, <i>i.e.</i> BSc (Hons) Food Nutrition & Dietetics under Faculty of Community Science AOI No. 2 Additional issues of DPGS AOI No. 3 Recommendations of BoS, FVSc AOI No. 4 Resolution to address Dr. K.M. Bujarbaruah, Hon'ble Vice Chancellor, AAU as Professor	Letter issued to Campus Director, AAU vide No.AAU/RG/Acad-229 (AT)/2018-19/3386 dated 28.02.2019. Positive reply towards accommodation has been received from the Campus Director and it is now proposed for introduction of the new degree programme from AAU now onwards. Letter issued vide No.AAU/RG/Acad-229 (AT)/2018-19/2942 Dated 13.02.2019. Notification issued vide No.AAU/RG/Acad-229 (AT)/2018-19/2892-2911 dated 13.02.2019. Notification issued vide No.AAU/RG/Acad-229(AT)/2018-19/2912-26 dated 13.02.2019. Notification issued vide No.AAU/RG/Exam305/2019/3251-60 dated

	AOI No. 5 Issues of equivalence of degrees	25.02.2019. And accordingly the matter has already been settled.
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Report on action taken on the decisions of the 230th meeting of the Academic Council held on 03.05.2019.

Item No.	Agenda	Action taken
4.	A.I.No.4. Conferment of degrees and awards on the occasion of the 21 st Convocation of Assam Agricultural University	The 21 st Convocation of the University was organized successfully, as planned for.
5.	A.I. No. 5. Proposal for revision of the rate of remuneration of the Guest Faculty and Assistant Professor (<i>Ad hoc</i>) appointed in AAU	The proposal is placed as a separate agenda item.
6.	A.I.No.6 Consideration for introduction of new Certificate/Diploma Course on 'Rural and Village Agri-tourism' under AAU	The proposal is placed as a separate agenda item.
7.	A.I.No.7. Consideration of the Academic Calendar for the session 2019-20	Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4280, dated 28.06.2019 after necessary incorporation.
8.	A. I. No. 8. Consideration of the Information Bulletin, 2019-20	Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4258, dated 28.06.2019 The Information Bulletin was accordingly published for official use and uploaded in AAU Website. Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4228, dated 27.06.2019

		Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4269, dated 28.06.2019
9.	A. I. No.9. Consideration of the detailed guidelines and formats for applying for promotion under CAS in respect of Library professionals	The 252nd meeting of Board of Management, AAU, held on 30/07/2019 has approved the guidelines and formats for applying for promotion of Library professionals under CAS. Also, the proposal has been sent to the Secretary to the Hon'ble Governor of Assam, vide No.AAU/ RG/BoM-252(AT)/2019-20/8357, dated 20.09.2019 for obtaining necessary concurrence of the Chancellor, AAU.
10.	A. I. No 10. Acceptance of the University Song	Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4290, dated 28.06.2019
11.	A.I.No. 11. Any other items AOI No. 1 Maintaining the timeline for declaration of results of the Master's degree programmes under the University	Notification issued vide No.AAU/RG/Acad-230(AT)/2019-20/4129, dated 03.07.2019
	AOI No. 2 Issue of increasing the rate of State Merit Scholarship offered by the University	The matter has been placed as a separate agenda.

Report on action taken on the decisions of the emergent meeting of the Academic Council held on 05.09.2019.

Item No.	Agenda	Action taken
2.	A.I. No.2. Consideration for allowing admission into Ph.D degree programme in respect of Pallavi Talukdar, Junior Laboratory Assistant, AICRP on Home Science	Notification issued vide No.AAU/RG/Acad-Emergent/2019-20/5387, dated 25.09.2019
3.	A.I. No.3. Consideration for allowing continuation of PhD research in respect of Sarat Sekhar Bora, newly recruited SMS (Agro Meteorology), under KVK, Udalguri	Notification issued vide No.AAU/RG/Acad-Emergent/2019-20/5403, dated 25.09.2019 Letter issued to Mr. Sarat Sekhar Bora vide No.AAU/2.4(3)/SMS(Agromet)/2019/RG/2019-20/8694, dated 27.09.2019 Letter issued to Ms. Ankita Dutta vide No.AAU/2.4 (118)/HS-19/RG/2019-20/ 8699, dated 27.09.2019 Letter issued to Ms. Sonia Langthasa vide No.AAU/RG/Exam-292(III)/2019-20/ 5592, dated 10.10.2019 Letter issued to Mr. Ajay Hazarika vide No.AAU/RG/Acad-Emergent/2019-20/5596, dated 11.10.2019 Letter issued to Ms. Sontara Kalita vide No.AAU/RG/Acad-Emergent/2019-20/5652, dated 14.10.2019

		Letter issued to Ms. Pompy Deka vide No.AAU/RG/Acad-Emergent/2019-20/5663, dated 14.10.2019 Letter issued to Mr. Milon Jyoti Konwar vide No.AAU/RG/Acad-Emergent/2019-20/5657, dated 14.10.2019 Letter issued to Mr. Subhankar Saha vide No.AAU/RG/Acad-Emergent/2019-20/5669, dated 14.10.2019 Academic Circular issued vide No.AAU/RG/Acad-Emergent/2019-20/6031, dated 27.11.2019
4.	A.I. No.4. Consideration for increase of intake capacity for admission into M.Sc(Agri) programme in Sericulture	Notification issued vide No.AAU/RG/Acad-Emergent/2019-20/5418, dated 25.09.2019

Report on action taken on the decisions of the 231st meeting of the Academic Council held on 27.12.2019.

Item No.	Agenda	Action taken
3.	A.I. No.3. Report on Action-taken on the decision of the proceedings of the 230th meeting of the Academic Council held on May 03, 2019	Letter issued to the Chairman, BoS, FA/FCSc/FVSc/FFSc, AAU, Jorhat/Khanapara/Raha vide No.AAU/RG/ACAD-231(AT)/2019-20/6948-51, dated 13.03.2020 Letter issued vide No.AAU/RG/ACAD-231(AT)/2020-21/131, dated 28.05.2020 The reply is awaited.
7.	A.I.No.7. Consideration of the recommendations of the Board of Studies, Faculty of Agriculture (I) Enhancement of the amount of Thesis Grant, State Merit Scholarship for Post-graduate students (II) Consideration for increase of seats in Master's degree in line with the DBT Task Force recommendations as well as implementation of EWS quota	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/7302, dated 14.02.2020 Committee's recommendations are placed in Annexure I. Letter issued vide No.AAU/RG/ACAD-231(AT)/2019-20/7128-32, dated 19.03.2020 Committee's recommendations are placed in Annexure II.

		Letter issued vide No.AAU/RG/ACAD-231(AT)/2020-21/7147, dated 28.05.2020
8.	A. I. No. 8. Proposal for revision of the rate of remuneration of the Guest Faculty and Assistant Professor (<i>Ad hoc</i>) appointed in AAU	Copy of the proceedings is enclosed at <i>Annexure III</i> for further deliberation, if required.
9.	A. I. No.9. Consideration for introduction of new Certificate/Diploma Course on Village Agri-tourism under AAU	Letter issued to Dr. M. Neog, ADEE(T), AAU, Jorhat vide No.AAU/RG/ACAD-231(AT)/2019-20/6799, dated 20.02.2020 The reply is awaited.
10.	A. I. No 10. Reservation of seats for admission into various degree programmes of the University in respect of <i>Matak</i> Community of Assam	Letter issued to Shri Nabin Ch. Ingti, Deputy Secretary to the Govt. Of Assam, Agriculture Department, Dispur vide No.AAU/RG/ACAD-231(AT)/2019-20/6870, dated 07.03.2020 No reply has yet been received by the office.
11.	A. I. No 11. Consideration of the proposal for 3 months overseas training programme under NAHEP for UG students	Letter issued to the Chairman, BoS, FA/FCSc/FVSc/FFSc, AAU, Jorhat/Khanapara /Raha vide No.AAU/RG/ACAD-231(AT)/2019-20/6948-51, dated 13.03.2020 The reply is awaited.
12.	A. I. No 12. Consideration of the appeal made by	Letter issued to the Asstt. Director General(EQR), ICAR, Krishi Anusandhan Bhawan-II, Pusa, New

	a group of AAU alumni for allowing them to pursue their PhD studies under AAU	Delhi vide No.AAU/RG/ACAD-231(AT)/2019-20/7310, dated 14.02.2020 Received a reply from Dr. M.K. Agnihotri, Asst. Director General(HRD), ICAR, Krishi Anusandhan Bhawan-II, Pusa, New Delhi vide Agril.Edn.F.No./1(29)/ 2020-Exam Cell dated 16 th March, 2020 (<i>Annexure IV</i>).
13.	A. I. No 13. Consideration of appeal made by Ms. Borsha Neog, Asstt. Professor, Department of Agric. Statistics, CA/AAU/Jorhat to permit her to carry out PhD research work under Dibrugarh University without hampering normal duties	Letter issued to the Ms. Borsha Neog, Asst. Professor, Dept. Of Agril. Statistics, CA, AAU, Jorhat vide No.AAU/RG/ACAD-231(AT)/2019-20/7313, dated 14.02.2020
14.	A. I. No 14. Consideration of the proposal for increasing the intake seat capacity for the Certificate Course on ‘Tea Production Technology & Management’	Letter issued to the HoD, Dept. THT, AAU, Jorhat vide No.AAU/RG/ACAD-231(AT)/2019-20/6954, dated 13.03.2020 The reply is awaited. Letter issued to the Dean, FA, AAU, Jorhat vide No.AAU/RG/ACAD-231(AT)/2020-21/1110, dated 22.05.2020
15.	A. I. No 15. Consideration of a proposal for institution of Gold Medal in the memory of Dr. A. K. Nath, former	Letter issued to Er. Biswajyoti Nath, Vivekananda Road, Schar, Cachar-788077 vide No.AAU/RG/ACAD-231(AT)/2019-20/7318, dated 14.02.2020

	Professor, Department of Soil Science and Agricultural Chemistry	Letter issued to Er. Biswajyoti Nath, Vivekananda Road, Schar, Cachar-788077 vide No.AAU/RG/ACAD-231(AT)/2019-20/6874, dated 07.03.2020 The proposal has been forwarded for consideration of the BoM.
16.	A. I. No 16. Consideration of appeal made by Dr. Pankaj Deka, Assistant Professor-cum Assistant Virologist, Dept. of Microbiology, College of Veterinary Science, AAU, Khanapara for issuance of NOC to apply for Visa	Letter issued to Dr. Pankaj Deka, Asst. Prof. Cum Asst. Virologist, Dept. Of Vety. Microbiology, CVSc, AAU, Khanapara vide No.AAU/RG/ACAD-231(AT)/2019-20/7319, dated 14.02.2020 Dr. Deka subsequently volunteered to drop from the PhD programme and opted to avail off the three months training programme under NAHEP in Australia.
17.	A. I. No 17. Consideration of enhancement of fees from the students coming from private institution for industrial training in the Department of Agricultural Statistics, AAU, Jorhat	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/7467-72, dated 20.02.2020 The proposal has been forwarded for kind appraisal of the BoM.
18.	A. I. No 18. Consideration of a request for providing certain concession for the wards of Kashmiri Migrants and Kashmiri Pandit/Kashmiri Hindu Families (Non-migrants) living in Kashmir Valley for admission in Higher Educational Institutions	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6774-76, dated 20.02.2020 The proposal has been forwarded for kind appraisal of the BoM.

19.	A. I. No 19. Consideration of a proposal to introduce a Diploma Course on ‘Tea Production, Processing and Smart Management’	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6777, dated 20.02.2020 The proposal has also been submitted for kind appraisal of the Board. Already a management committee has been constituted at the Department level (<i>Annexure V</i>)
20.	A. I. No 20. Consideration of the revised qualifications for various academic posts under Assam Agricultural University, including CAS	Letter issued vide No.AAU/RG/Misc-309/2019-20/7105, dated 18.03.2020 (*The discussion on revised qualifications for various Academic posts and AAU Leave Rules, which was scheduled to be held on March 24th, 2020, had been postponed due to COVID-19 Pandemic.)
23.	A. I. No. 23. Any other items AOI No. 1 Introduction of an e-Course on “Climate Resilient Agriculture”	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6855-69, dated 07.03.2020 The proposal has been forwarded for kind appraisal of the BoM.
	AOI No. 2 Introduction of MSc (Agri) programme in Entomology and Plant Pathology at BNCA, Biswanath Chariali	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6790, dated 20.02.2020 The proposal has been forwarded for kind appraisal of the BoM.

	AOI No. 3 Consideration of the recommendations of the Board of Studies, Faculty of Community Science a) Grant of In-plant fee to the UG students of the College of Community Science b) Modification of syllabus for BSc (Hons) Food Nutrition & Dietetics Programme c) Eligibility for admission in BSc (Hons) Community Science Programme d) Change of College Emblem	Letter issued to the Dean, FCSc vide No.AAU/RG/ACAD-231(AT)/2019-20/6941, dated 13.03.2020 Letter issued to the Nodal Officer, ICAR(AAU), Jorhat vide No.AAU/RG/ACAD-231(AT)/2019-20/6944, dated 13.03.2020 Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6797-98, dated 20.02.2020 Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/86-95, dated 12.05.2020 Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6802-04, dated 04.03.2020
	AOI No. 4 Consideration of the recommendations of the Board of Studies, Faculty of Veterinary	

	Science a) Charging a certain amount of money from the students and research projects to cover the expenses of Institutional Animal Ethics Committee (IAEC) meetings b) Naming of Lecture Halls after professional stalwarts	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/6805-17, dated 04.03.2020 The proposal has been forwarded for kind appraisal of the BoM. The proposal has been forwarded for consideration of the BoM.
	AOI No. 5 Consideration for extension of study leave in respect of Dr. Arijit Shome, Assistant Professor (AGB), College of Veterinary Science, Khanapara	Letter issued to Dr. Arijit Shome, Asst. Professor, Dept. Of Vety. Biochemistry, CVSc, AAU, Khanapara, vide No.AAU/RG/ACAD-231(AT)/2019-20/7325, dated 14.02.2020
	AOI No. 7 Guidelines for attending Summer/Winter School/Training <i>etc.</i> and presentation of papers by AAU teachers	Notification issued vide No.AAU/RG/ACAD-231(AT)/2019-20/7107-7121, dated 18.03.2020

Committee's recommendations on enhancement of the rate of State Merit Scholarship (SMS)

Initiating the discussion, the Joint Registrar (Academic), Jorhat let the members present in the first ever in-house meeting on 'Google Meet' held on 27th April, 2020, know that a proposal was moved by the DPGS for enhancement of the rate of University scholarship admissible to the PG students of AAU. The Academic Council dated 27th December, 2019 while deliberating thereon observed that the matter need to be examined keeping the absorption capacity of the University and realistic assessment of the existing rate of SMS in view. With that end, a committee was constituted with all Deans and DPGS to propose and recommend the SMS at enhanced rate with full justification, covering both UG and PG programmes. As such, the members may deliberate and come up with suitable recommendation.

The Joint Registrar (Academic), Jorhat further presented a brief account of different rate(s) of scholarships presently admissible to AAU students (UG: Rs. 1000/-; Masters: Rs 1600/- and PhD: Rs. 2000/-pm) *vis-a-vis* the institutional scholarships offered by a number of SAUs and Deemed Universities of the country (*viz.* PAU, AAU, UASD, NDRI and Universities from Maharastra and Tamilnadu). It can very well be observed that AAU-students are in a better off position, both in terms of rate of scholarship and number of recipients.

Responding to the presentation, the members including the DPGS opined that the proposal for enhancement of the rate of scholarship may be kept on hold because of the situation arising from unchecked spread of COVID-19, particularly at a time when the state economy has manifested unprecedented slow down and asking for more state funds would not be proper at the moment.

Joint Registrar (Academic)
Assam Agricultural University
JORHAT – 785 013

Committee's recommendations on introduction of EWS quota in AAU

While introducing the topic, the Joint Registrar (Academic) informed the members present in the first ever in-house meeting on 'Google Meet' held on 27th April, 2020, that in accordance with the provisions of the Constitution (103rd Amendment) Act, 2019, the Government of India *vide* OM dated 17th January, 2019 (DHE/MHRD) has introduced a new category of reservation for the Economically Weaker Sections (EWS) who are not covered under the existing scheme of reservation for the SC, ST and OBC categories. They will be entitled to receive the benefits of reservation on a preferential basis in posts and service and also for admission into the educational institutions *w.e.f.* 2019-20. Pursuant to this, the Government of Assam *vide* its Personnel Department OM No. ABP.07/2019/3/dtd 2nd February, 2020 created similar provisions of reservation for EWS in services and admission in educational institution. The Medical Colleges of Assam had already increased their seat intake by 174 numbers, with due endorsement of the ICMR. Now, as desired by the Academic Council, he further added, the members of the Committee comprising all Deans and DPGS shall have to suggest appropriate course of action for AAU.

The members participated in the discussion with valid reasoning and on-time intervention, and after a prolonged debate, it was decided to recommend introduction of EWS quota in AAU as per the guidelines prescribed by the State Government *w.e.f.* 2020-21 session.

Accordingly, there shall be 10 per cent reservation to the EWSs for admission into different Faculties under Assam Agricultural University for the persons who are not covered under the existing scheme of reservations for the SC, STs and OBC/MOBC and whose family has gross annual income is not more than 6 lakh. The family, for this purpose will include the person who seeks the benefit of reservation, her/his parents and sibling below the age of 18 years and also her/his spouse and children below the age of 18 years. The income shall

include the income from all sources, ie, salary, agriculture, business etc and it will be the income for the financial year prior to the year of application. Also, persons whose family owns or possesses any of the following assets shall be excluded from being identified as EWS irrespective of the family income.

- i) Agricultural land more than 15 bigha in rural area
- ii) Residential land rural area more than 1 bigha
- iii) Residential plot in notified Municipal Corporation/Municipality Board/Town Committee area more than 1.5 katha
- iv) Residential built up area more than 1000 ft² in notified Municipal Corporation/Municipality Board/Town Committee area

The income and asset of the families would be required to be certified by an officer not below the rank of Circle Officer. The Officer who issues the certificate would do the same after carefully verifying all relevant documents following due process.

Joint Registrar (Academic)
Assam Agricultural University
JORHAT – 785 013

GOVERNOR'S SECRETARIAT, ASSAM
RAJ BHAVAN : GUWAHATI-781001.

No. GSA.51/2018/137

From : Shri S K G Boruah, IAS,
 Commissioner & Secretary to Governor,
 Assam, Raj Bhavan, Guwahati-1.

January 22, 2022

Receipt No. 176

Date 09/06/2020

Vice-Chancellor's Sectt.

AAU, Jorhat - 785013

To : The Vice Chancellor,

Gauhati University, Guwahati-14 / Dibrugarh University, Dibrugarh-786004 / Assam Agricultural University, Jorhat-785013 / Bodoland University, BTC, Kokrajhar-783370 / Krishna Kanta Handiqui State Open University, Dispur, Guwahati-781006 / Tezpur University, Naapam, Tezpur-784028 / Assam University, Silchar-788011 / Assam Rajib Gandhi University of Co-operative Management, Sivasagar-785640 / Cotton University, Panbazar, Guwahati-781001 / National Law University and Judicial Academy, Amingaon, Guwahati / Kumar Bhaskar Varma Sanskrit & Ancient Studies University, Nalbari, Assam / Assam Science and Technology University, Tetelja Road, Jalukbari, Guwahati-781013 / Madhabdev University, Narayanpur, Lakhimpur / Bhattadev University, Pathala, Barpeta / Rabindranath Tagore University, Hojai / Majuli University of Culture, Majuli / Srīmananta Sankardeva University of Health Sciences, Narkashur Hilltop, Bhangagarh, Guwahati, Assam 781032 / Assam Women's University, Jamuguri, Rowrah, Jorhat, Assam, Pin: 785004

Sub Vice Chancellors Meeting held on 18th of December, 2019- regarding

With reference to the above and as desired by the Hon'ble Governor of Assam, Chancellor of State Universities & Tezpur University and Chief Rector of Assam University, I have the honour to enclose herewith the Minutes of the Vice Chancellors Meeting held on 18th of December, 2019 at Conference Hall, Raj Bhavan, Assam for your kind information and necessary action.

Yours faithfully,

Enclor: Asstated.

(S K G Boruah, IAS)
 Commissioner & Secretary to Governor,
 Raj Bhavan, Assam, Guwahati-1
 January 22, 2020

Memo No. GSA.51/2018/137-A

Copy to:

1. PPS to the Hon'ble Governor, Assam, Raj Bhavan, Guwahati-1.
2. P.S. to the Hon'ble Minister, Education, Govt. of Assam, Dispur, Guwahati-6.
3. P.S. to the Advisor, Education, Govt. of Assam, Dispur, Guwahati-6.
4. P.S. to the Addl. Chief Secretary to the Govt. of Assam, Higher Education Department, Dispur, Guwahati-6.
5. Concerned file.

(S K G Boruah, IAS)
 Commissioner & Secretary to Governor,
 Raj Bhavan, Assam, Guwahati-1

MINUTES OF THE MEETING OF THE HON'BLE GOVERNOR WITH THE
VICE CHANCELLORS OF ALL UNIVERSITIES
OF THE STATE OF ASSAM

DATE: 18 DECEMBER 2019 (WEDNESDAY)

TIME: 11:00 AM to 1:45 PM

VENUE: RAJ BHAVAN, ASSAM

The list of participants is enclosed at Annexure.

On behalf of the Hon'ble Governor of Assam & Chancellor of State Universities, Commissioner & Secretary to Governor, Shri S.K.G. Boruah, IAS, welcomed the Hon'ble Minister of Education, Adviser, Education, Addl. Chief Secretary to Govt. of Assam, Education Department and the Vice Chancellors of all the universities present in the meeting.

At the outset, the Hon'ble Chancellor, addressing the meeting, said: "Education is the most important national activity and the backbone of a country's progress. The New Education Policy 2019 envisions an India-centered education system. Considering the potential of New Education Policy 2019, we should all lend our brains and hearts for framing the curriculum of higher education in sync with the new policy". Hon'ble Governor says that information science will further help the students undergo their course in new era. Hon'ble Governor urge upon the esteemed dignitaries present to make facilities like Liberal education, implementation of multi-disciplinary campuses, unified curricula for common subjects for all universities to enable credit transfer and students' mobility, common time table for all state universities, common entrance tests for the benefits of the students etc. as essential hall marks for imparting their education in their respective universities in tune with the NEP. Hon'ble Governor also urge for conscious efforts to give adequate weightage and creating substantive space for mother tongue in higher education. Hon'ble Governor further says that we should all take the benefits of the provision of NEP and encourage students as well as teachers from Sri Lanka, Nepal, Bangladesh, Bhutan, Myanmar, Afghanistan, Thailand as well as from African nations and other South East Asian countries to India. Hon'ble Governor also says that adequate steps should be made for the improvement of infrastructure and bolstering the systems of education of Government and Provincialized schools in a time bound manner.

Adviser to Education Department moderated the meeting.

The Hon'ble Minister of Education, Adviser, Education and Addl. Chief Secretary to Govt. of Assam, Education Department also addressed the meeting and pointed out the following issues:

- (a) All Heads of the institutions will be accountable for quality and advancement of the institutions.
- (b) VCs are advised to counsel the students so that the tranquility is maintained in the institution enabling maintenance of a conducive learning environment. Maintenance of peace on the campus is extremely important for quality education and academic discipline.

- (c) University autonomy is to be exercised with due diligence.
- (d) All universities in the State should have common syllabi, a unique calendar and also a uniform grading pattern (e.g. a 10-point scale).
- (e) Universities must encourage admission to foreign students with appropriate residential accommodation and campus discipline.
- (f) Universities should carry the concept of "Universe", and accordingly "Internationalization" (both Faculty and students) should be reflected in practice.

VC, National Law University and Judicial Academy, Assam suggested to consider establishing a State Law University in line with National Law Universities of the country.

VC of Cotton University was advised to expedite recruitment process to fill-up the posts which have already been sanctioned.

VC of Gauhati University has been asked to expedite the ongoing appointments.

A number of important issues were intended to be raised by VC, Srimanta Sankaradeva University of Health Sciences, Hon'ble Governor suggested a separate meeting with Hon'ble Minister of Health.

On the issue of additional funds raised by VC, Bodoland University, it was stated by the Hon'ble Minister of Education that the next allotment will be considered only after receipt of UC of the previously granted funds.

The meeting discussed about different diploma/self financing courses which are being run by Universities at present. It is advised that a review is to be made by the Universities on these courses for further continuation of such courses as per present necessity of the courses.

A special meeting be conducted by the Principal Secretary, Department of Agriculture regarding encroachment of land of Assam Agricultural University in different locations.

VC(I/c), Assam Agricultural University expressed willingness to supply seeds for various agricultural activities. The Department of Agriculture was requested to take up the matter.

VCs of Gauhati & Dibrugarh Universities have been advised to take special care to maintain discipline on their campuses. The meeting expressed concerns over incidences of suicide on some campuses. VCs informed of having taken some measures to prevent recurrence of the menace.

VC, Tezpur University emphasized the necessity of enrollment of students from all over the country.

The Commissioner & Secretary to the Govt. of Assam, Agriculture Department suggested that degree courses in Agriculture may be started in other universities also.

The meeting suggested that the prevailing curricula of different subjects of all Universities must be reviewed and updated removing overlaps and incorporating state-of-the-art vocational training, skill development training and job oriented curricula should be incorporated.

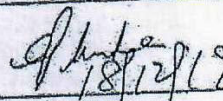
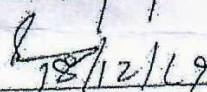
In the concluding remarks, the Hon'ble Governor reiterated that no contractual teacher is to be continued. Hon'ble Governor further stressed that advertisements for faculty appointments should also be made in four leading national newspapers one each from North, South, East and West i.e. Hindustan Times from New Delhi, The Hindu from Chennai, The Telegraph from Kolkata and The Times of India from Mumbai along with local newspapers so as to attract qualified and competent candidates more in number for the purpose. This is expected to enrich the pool of highly qualified and acknowledged academic experts in an institution. Hon'ble Governor also stated that *Selection Processes should be transparent and merit based.*

Smti Swapna Dutta Deka, ACS, Addl. Secretary to Governor proposed the vote of thanks.


(S.K.G. Boruah, IAS)
Commissioner & Secretary to Governor,
Assam, Raj Bhavan, Guwahati-1

**MEMBERS PRESENT IN THE MEETING OF ALL VICE CHANCELLORS OF STATE UNIVERSITIES HELD ON
18.12.2019 AT 11:00 HRS IN THE CONFERENCE HALL OF RAJ BHAVAN, ASSAM.**

Sl. No.	Designation	Contact Number	Signature
1.	Hon'ble Governor, Assam		
2.	Hon'ble Education Minister, Govt. of Assam		
3.	Advisor, Education Department, Govt. of Assam		
4.	Addl. Chief Secretary to Govt. of Assam, Higher Education Department	7087971220	
5.	Principal Secretary to Govt. of Assam, Agriculture Department	94350 25000	
6.	Commissioner & Secretary to Governor, Assam		
7.	Addl. Secretary to Governor, Assam	94350 31395	
8.	Vice Chancellor, Assam Down Town University	94350 43131	
9.	Vice Chancellor, Gauhati University	94350 12920	
10.	Vice Chancellor, Dibrugarh University	94350 06038	
11.	Vice Chancellor, Assam Agricultural University	94350 93946	
12.	Vice Chancellor, Bodoland University	7506331667	
13.	Vice Chancellor, Krishna Kanta Handuqui State Open University	99543 00033	
14.	Vice Chancellor, Tezpur University	9957191528	
15.	Vice Chancellor, Assam University		
16.	Vice Chancellor, Assam Rajiv Gandhi University of Co-operative Management	94350 57921	
17.	Vice Chancellor, Cotton University	94350 47933	
18.	Vice Chancellor, Kumar Bhaskar Varma Sanskrit & Ancient Studies University	94351 08633	
19.	Vice Chancellor, Assam Science & Technology University	9978 407094	
20.	Vice Chancellor, National Law University & Judicial Academy, Guwahati	8884519093	
21.	Vice Chancellor, Madhabdev University	9864075111	
22.	Vice Chancellor, Bhattadev University	9864054739	

23	Vice Chancellor, Rabindranath Tagore University	9435346359	 18/12/19
24	Vice Chancellor, Majuli University of Culture.	9435130613	 18/12/19
25	Vice Chancellor, Srimanta Sankardeva University of Health Sciences	9871439583	
26	Vice Chancellor, Assam Women's University.	98640.38186	Mlyok 18/12/2019
27	Director, Higher Education, Govt. of Assam	94350-48493	 18/12/19
28	Director, Secondary Education, Govt. of Assam	94350 77143	 18/12/19

Annexure: IV

Pluram
21/03/20



JA, Reg
am

Office of the Registrar
AAU, Jorhat-13
Receipt No. 13,082 ..
Date 23.3.20 ..

महेन्द्र कुमार अग्निहोत्री
सहायक महानिदेशक (मा.स.वि.) - एक्टिंग
Dr. M.K. Agnihotri
Assistant Director General (HRD) – Acting
Agril. Edn. F. No./1(29)/2020-Exam Cell

कृषि शिक्षा विभाग
भारतीय कृषि अनुसंधान परिषद
कृषि अनुसंधान भवन-II, पूसा,
नई दिल्ली - 110012.
Dated 16th March, 2020

The Registrar,
Assam Agricultural University,
Jorhat-785013 (Assam).

Subject : Appeal made by a group of AAU alumni for allowing them to pursue their Ph. D. studies under AAU – regarding.

Sir,

This is with reference to your letter No. AAU/RG/ACAD-23(AT)/2019-20/7310 dated 14th February, 2020 regarding the subject cited above.

In this connection, it is to convey that in accordance with the item 3.1 of Information Bulletin for ICAR AICE-JRF/SRF (Ph. D.) – 2020 the candidates passed out from any public funded/Govt. institution are eligible to appear in ICAR's AICE-JRF/SRF (Ph. D.) – 2020. The candidates passed out from private Agricultural Universities/Colleges not accredited by ICAR, even though affiliated to public funded/Govt. institutions are not eligible for admission through this examination. Only those candidates from Private Agricultural Universities/Colleges (accredited by ICAR) are eligible to appear in the examination who have completed their degree in specific programmes accredited by ICAR.

Yours faithfully,

(M.K. Agnihotri)

Phones: 011-25843635 (O), Tele Fax: 011-25840851, Email: adghrd1.icar@gmail.com

640
02/6/20K. P. Deka
21/6/20

OFFICE OF THE DEAN :: FACULTY OF AGRICULTURE:: AAU :: JORHAT -13

ORDER

With the approval of the Hon'ble Vice Chancellor a management committee is constituted with the following teachers for planning and undertaking all necessary steps for implementation of the proposed diploma course on 'Tea Production, Processing & Smart Management' in the Deptt. of THT, FA, AAU, Jorhat.

Management Committee

- | | |
|--|----------------------|
| 1. The Prof & Head, Deptt. of THT, AAU, Jorhat | - Chairman |
| 2. Dr. G.K. Saikia, Professor, Deptt. of THT, AAU, Jorhat | - Course Coordinator |
| 3. Dr (Mrs) A.S. Gogoi, Asstt. Professor, Deptt. of THT, AAU, Jorhat | - Course Director |
| 4. Dr. M. Deka, Professor, Deptt. of THT, AAU, Jorhat | - Member |
| 5. Dr. I.P. Sahewalla, Professor, Deptt. of THT, AAU, Jorhat | - Member |

Sd./- Jayanta Deka.

Dean,

Faculty of Agriculture,
AAU, Jorhat

Dated 11/6 /2020.

Memo No. AAU10(1)/1231/2019-20 512-24
Copy forwarded for information & necessary action to:-

1. The PS to VC, AAU, Jorhat
2. The Registrar, Assam Agril. University, Jorhat.
3. The Comptroller, AAU, Jorhat.
4. The Prof & Head, Deptt. of THT, AAU, Jorhat
5. The All Members of the committee
6. The Assistant Comptroller, FA, AAU, Jorhat.
7. Office Order Book
8. Concerned file.


01/07/2020
Dean,

Faculty of Agriculture,
Assam Agril. University
Jorhat

Report on action taken on the decisions of the 232nd meeting of the Academic Council held on June 15, 29 and 30, 2020.

Item No.	Agenda	Action taken
2.	A.I. No.2. Confirmation of the proceedings of the 231st meeting of the Academic Council held on December 27, 2019	Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/3309-3325, dated 01.09.2020
3.	A.I. No.3. Report on Action-taken on the decision of the proceedings of the 231st meeting of the Academic Council held on December 27, 2019	Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/755, dated 06.08.2020 Notification issued vide No.AAU/RG/Misc-III/2020-21/ 1233-43, dated 17.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/3175, dated 25.08.2020 Letter issued to the Commissioner & Secretary to His Excellency, the Governor of Assam, Governor's Secretariat, Rajbhavan, Guwahati vide No.AAU/RG/ACAD-232(AT)/2020-21/3267, dated 31.08.2020 Letter issued to the Dean, Faculty of Agriculture/Community Science/Veterinary Science/ Fisheries Science, AAU, Jorhat/Khanapara/ Raha. vide No.AAU/RG/

		ACAD-232(AT)/2020-21/ 3188-90, dated 25.08.2020 Letter issued to the Prof. & HoD, Dept. of THT, AAU, Jorhat vide No.AAU/RG/ACAD-232(AT)/2020-21/3264, dated 31.08.2020 It's being finalized for consideration of the Board. The course is going to be offered from the ensuing semester.
4.	A.I.No.4. Consideration of the Academic Calendar for the year 2020-21	The Academic Calendar will be finalized in due course, based on the commencement of new semester.
5.	A.I. No. 5. Consideration of the Information Bulletin 2020-21	Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1037-48, dated 11.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1058-67, dated 11.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1049-57, dated 11.08.2020

		Under the changed scenario, the admission portal was made live w.e.f. August 01, 2020 only. And last date of submission of online form was extended till September 06, 2020. Scrutiny of applications is in progress now. Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1068-77, dated 11.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1078-86, dated 11.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/755, dated 06.08.2020. The Committee has already taken action and job order has been placed in favour of a proven service provider for conduct of centre-based online Entrance Examination.
6.	A.I.No.6 Consideration of the recommendations of the committee constituted for implementation of ICAR advisories for resumption of the normal academic activities	Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/444-481, dated 02.07.2020 Final year UG results have been declared. PG students are clearing their seminar/ comprehensive exam/ thesis viva on

		online/offline mode. The results of continuing students have been processed for declaration. The VCI was approached accordingly. However, no reply has been received till date.
7.	A.I.No.7. Financial Support to the students admitted in AAU under Economically Backward Category	Letter issued to the Chairman, Standing Committee for recommending financial assistance to economically backward students & Registrar, AAU, Jorhat vide No.AAU/RG/ACAD-232(AT)/2020-21/3194, dated 25.08.2020. The standing committee is going to meet soon to draw final recommendations.
8.	A. I. No. 8. Consideration for revision of Library Security Money	Complied.
9.	A. I. No. 9. Consideration of proposal for transfer of admission fee of the continuing students to P L Account of the DPGS	Letter issued to the DPGS, AAU, Jorhat vide No.AAU/RG/ACAD-232(AT)/2020-21/1244, dated 17.08.2020
10.	A. I. No 10. Consideration for increase of intake capacity for admission into MSc (Agri) programme for the students passed out with BSc (Hons) Sericulture degree	Notification issued vide No.AAU/RG/Exam-88(PG)/1228-32, dated 17.08.2020

11.	A. I. No 11. Financial support under DBT Postgraduate Teaching Programme and consideration of the terms and conditions laid by the Department	Notification issued vide No.AAU/RG/Misc/2020-21/317, dated 17.06.2020 Notification issued vide No.AAU/RG/ACAD -232(AT)/2020-21/1100-14, dated 11.08.2020 Letter issued vide No.AAU/RG/ACAD-232(AT)/2020-21/3270, dated 31.08.2020 Letter issued to The Deputy Director General (Agricultural Education), ICAR vide No.AAU/RG/ACAD-232(AT)/2020-21/3274, dated 31.08.2020 Notification issued vide No.AAU/RG/ACAD -232(AT)/2020-21/1087-91, dated 11.08.2020 Letter issued to Dr. P .Borah, Professor (AniBT) & Coordinator, Committee for financial support under DBT Postgraduate Teaching Programme, Faculty of Veterinary Science, CVSc, AAU, Khanapara, vide No.AAU/RG/ACAD-232(AT)/2020-21/3167, dated 25.08.2020
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12.	A. I. No 12. Consideration of the proposal for revision of charge allowance of Deputy Director of Students' Welfare	The proposal will be placed before the Board in due course.
14.	A. I. No 14. Appeal made by Ms. Prakshipta Baruah, SMS/KVK/Karbi Anglong	Letter issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1247, dated 17.08.2020
15.	A. I. No 15. Consideration of the appeal made by Ms. Gitali Handique, Asstt. Professor (English), SCS College of Agriculture, Rangamati to permit her to carry out PhD research work under Dibrugarh University without hampering normal duty	Letter issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1253, dated 17.08.2020
16.	A. I. No 16. Consideration of the appeal made by Dr. Juripriya Brahma, Jr. Scientist, LRS, Mondira to grant her study leave for a period of 12 months to complete the PhD programme at TNVASU, Chennai	Letter issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1259, dated 17.08.2020
17.	A. I. No 17. Consideration of the appeal made by Dr. Aditya Baruah, Asstt. Professor (VPH & E), LCVSc, Joyhing to permit him to carry out PhD research work	Letter issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1264, dated 17.08.2020

18.	A. I. No 18. Consideration of the recommendations of the Board of Studies, Faculty of Fisheries Science held on March 06, 2020 and June 05, 2020 I. Opening of PhD Programme in the Department of Fish Processing Technology II. Change of codes of MFSc subjects offered by the Department of Aquatic Environment Management III. Opening of PhD Programme in the Department of Fisheries Resource Management	Letter issued to the Dean, FFSc, AAU, Raha vide No.AAU/RG/ACAD-232(AT)/2020-21/3309(a), dated 01.09.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1115-18, dated 11.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1092-96, dated 11.08.2020
19.	A. I. No 19. Consideration of the recommendations of the Board of Studies, Faculty of Community Science held on May 21, 2020	Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1097-99, dated 11.08.2020
20.	A. I. No 20. Appointment of External Examiner for thesis evaluation	Letter issued to the DPGS, AAU, Jorhat vide No.AAU/RG/ACAD-232(AT)/2020-21/3164, dated 25.08.2020
21.	A. I. No. 21. Any other items Issues included under any other items,	

	namely, AOI No. (a): Consideration of the new remodeled MVSc Animal Biotechnology programme. AOI No. (b): Representation submitted by the Students Union. AOI No. ©: Consideration of the recommendations of the Board of Studies, Faculty of Veterinary Science held on June 11, 2020 I. Institution of Foundation Day Lecture II. Clearance of Institutional Bio-safety Committee (IBSC)	Covered under Agenda Item no. 11. Covered under Agenda Item no. 6. Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/1270-72, dated 17.08.2020 Notification issued vide No.AAU/RG/ACAD-232(AT)/2020-21/3172-74, dated 25.08.2020
	AOI No. (e) Admission of In-service candidates into Extended Semester	Letter issued to the DPGS, AAU, Jorhat vide No.AAU/RG/ACAD-232(AT)/2020-21/1181, dated 12.08.2020 Letters issued to - ° Mr. Milon Jyoti Konwar

	◦ Mr. Subhankar Saha ◦ Ms. Sontara Kalita ◦ Ms. Pompy Deka ◦ Ms. Roji Chutia ◦ Ms. Dorodi Priyam Duarah ◦ Ms. Sanghamitra Sarma ◦ Ms. Aradhana Phukon ◦ Mr. Pranjal Kumar Kaman ◦ Mr. Shankar Hemanta Gogoi, vide No.AAU/RG/ACAD-232(AT)/2020-21/1184-1203, dated 12.08.2020
AOI No. (f) IT Policy of Assam Agricultural University	Letters issued to - (1) DR. JATINDRA KUMAR DEKA , <i>Professor and Head, Department of Computer Science and Engineering, IITG</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3206, dated 25.08.2020 (2) DR. RUPAM BARUAH, <i>Professor and Head, Department of Computer Science and Engineerin, JEC</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3209, dated 25.08.2020 (3) MR. JAMESON MUSHAHARY, <i>Asstt. Prof. & HoD, Department of Computer Science and Information Technology, JIST</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3212, dated 25.08.2020 (4) DR. SUDEEP, <i>Head (A) & Professor ,Computer Applications Division, IASRI</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3215, dated 25.08.2020 (5) MR. RAJESH GOPINATHAN, <i>Chief Executive Officer & Managing Director IT Consulting and Software Service, TCS</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3218, dated 25.08.2020 (6) MR. PRAYANGAM GOSWAMI, <i>Standing counsel for AAU</i> vide No.AAU/RG/ACAD-232(AT)/2020-21/3209(a), dated 25.08.2020

Report on action taken on the decisions of the 233rd meeting of the Academic Council held on September 04 and 10, 2020.

Item No.	Agenda	Action taken
3.	A.I. No.3. Report on Action-taken on the decision of the proceedings of the 232nd meeting of the Academic Council held on June 15, 29 and 30, 2020	Office Memorandum issued vide No.AAU/RG/ ACAD-233(AT)/2020-21/ 3546-61, dated 15.09.2020
4.	A.I.No.4. Conduct of VET 2020	Notification issued vide No.AAU/RG/ACAD-233(AT)/2020-21/3478, dated 08.09.2020 Accordingly, the VET 2020 was successfully arranged on online mode, per favour of M/s Merit Trac, during October 10 & 11, 2020.
5.	A.I. No. 5. Commencement of next semester	Notification issued vide No.AAU/RG/ACAD-233(AT)/2020-21/3478, dated 08.09.2020 Under the compelling situation, the VET 2020 was successfully arranged on online mode during October 10 & 11, 2020. Under the compelling situation, online classes for newly admitted students started from November 02, 2020. The final year students have already reported at the respective campuses. The commencement of 2 nd semester is to be decided first to prepare the Academic Calendar for 2020-21.
8.	A. I. No. 8.	

	Consideration for starting of 4 th year 2 nd semester under BFSc programme instead of 4 th year 1 st semester courses	Notification issued vide No.AAU/RG/ACAD-233(AT)/2020-21/3478, dated 08.09.2020
9.	A. I. No. 9. Appointment of External Examiner for evaluation of PhD Thesis	Letter issued to the Director of Post Graduate Studies, AAU, Jorhat vide No.AAU/RG/ACAD-233(AT)/2020-21/3852, dated 12.10.2020 Letter issued to the HoD, Dept. of Plant Pathology, AAU, Jorhat vide No.AAU/RG/ACAD-233(AT)/2020-21/3854, dated 12.10.2020
10.	A. I. No 10. Consideration of the report of the Committee constituted for institution of Certificate Course on Agro-tourism under AAU	The proposal has already been cleared by the Board dtd. 21/11/2020.
11.	A. I. No 11. Consideration of the proposal for institution of Cash Award to the best male and female graduate in Tea Husbandry and Technology for the academic year 2019-20	Letter issued to Shri D. Dowerah, VA, M/s Barooah & Associates Limited, Mahatma Gandhi Road, Jorhat-785001, vide No.AAU/RG/ACAD-233(AT)/2020-21/3871, dated 08.10.2020 No reply has yet been received from the donor.
12.	A. I. No 12. Consideration of the appeal made by Mr. Paul A. Soremi, a PhD scholar from Federal University of Agriculture, Abeokuta, Ogun State, Nigeria for	Letter issued to Mr. Paul A. Soremi, Assistant Lecturer and Ph. D. Scholar, Dept. of PP & CP, College of Plant Science and Crop

	allowing him to carry out research in AAU	Production , Federal University of Agriculture, Abeokuta, Ogun State, Nigeria, vide No.AAU/RG/ACAD-233 (AT)/2020-21/4136, dated 29.10.2020
13.	A. I. No 13. Consideration of a request for allowing to act as Supervisor and to host Dr. Sosanka Protim Sandilya, a scholar from Dibrugarh University for post-doctoral research	Order issued vide No.AAU/RG/ Exam-Misc- II/2020-21/4044, dated 21.10.2020. Letter issued to Dr. Palash Deb Nath, Prof., Dept. of PP, AAU, Jorhat, vide No.AAU/RG/ ACAD-233 (AT)/2020-21/4183, dated 05.11.2020. Letter issued to Mr. Sudipta Hazarika, Bihpuria, Ward No.: 7, Mukutabon, Lakhimpur- 784161, vide No.AAU/RG/ ACAD-233 (AT)/2020-21/4025, dated 21.10.2020. Letter issued to Dr. Manash Protim Goswami, Rajabahar Gaon, Dergaon, Golaghat-785614, vide No.AAU/RG/ACAD-233 (AT)/2020-21/4022, dated 21.10.2020. Letter issued to Dr. Ujjal J. Phukan, House No.- 12(P) A, Latif Nagar, Near Cinnamara Railway Gate, Cinnamara, Jorhat-785008, vide No.AAU/RG /ACAD-233 (AT)/2020-21/4017, dated 20.10.2020.
14.	A. I. No 14. Consideration of the appeal made by Mr. Mahender Singh Yadav for extension of leave for four (4) more semesters <i>i.r.o.</i> his son, Mr. Mohit Yadav, 13-VK-56	Letter issued to the Dean, Faculty of Veterinary Science, AAU, Khanapara, vide No.AAU/ RG/ ACAD-233(AT)/ 2020-21/3849, dated 12.10.2020

16.	AOI No. (a). Permission for undergoing higher studies leading to PhD <i>i.r.o.</i> Shri Sarat Sekhar Borah, SMS (GKMS), KVK, Udalguri	Letter issued to Mr. Sarat Sekhar Borah, SMS (GKMS), KVK, Udalguri, vide No.AAU/ RG/ ACAD -233(AT)/ 2020-21/3867, dated 08.10.2020
	AOI No. (b). Consideration of the recommendations of the Committee constituted for review of Child Care Leave (CCL) in AAU	Revised report of the Committee has been placed separately against agenda item no.5.

Report on action taken on the decisions of the 234th meeting of the Academic Council held on January 25, 2021.

Item No.	Agenda	Action taken
3.	A.I. No.3. Report on Action-taken on the decision of the proceedings of the 233rd meeting of the Academic Council held on September 04 and 10, 2020.	Office Memorandum issued vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7444, dated 26.02.2021 The recommendations of the Committee have been placed as a separate agenda (No. 06). Necessary administrative notification has been issued.
5.	A.I. No. 5. Consideration of the report of the Committee constituted for review of Child Care Leave in AAU.	Notification issued vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7596, dated 03.03.2021
6.	A.I.No.6 Consideration of the revised report of the standing committee constituted for recommending financial support to economically backward students admitted in AAU.	Notification issued vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7634, dated 03.03.2021
7.	A.I.No.7. Hosting of high-end research under various sponsored programmes and introduction of PDF in AAU.	Notification issued vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7619, dated 03.03.2021

8.	A. I. No. 8. Consideration of the appeal made by Mr. Dipankar Roy, an MSc (Agri) student from Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI), Narendrapur, Kolkata for allowing him to undertake Master's dissertation work under AAU.	Letter issued to Mr. Dipankar Roy, an MSc (Agri) student RKMVERI vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7614, dated 03.03.2021
9.	A. I. No. 9. Consideration of the resolution adopted by the Assam Animal Husbandry & Veterinary Service Association (AAHVSA) for reservation of seats for admission into BVSc & AH degree programme for the wards of serving veterinarians of the State Department.	Letter issued to the General Secretary, AAHVSA vide No.AAU/ RG/ ACAD-234(AT) / 2020-21/ 7620, dated 08.03.2021
10.	A. I. No 10. Consideration of the appeal made by Ms. Nazrin Sultana Ahmed, Asstt. Professor (Fish Processing Technology), College of Fisheries, Raha to permit her to carry forward her unfinished PhD research work.	Letter issued to Ms. Nazrin Sultana Ahmed, Asstt. Professor (FPT),CoF, Raha vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7451, dated 26.02.2021
11.	A. I. No 11. Consideration of the appeal made by Dr. Arijit Shome, Asstt Professor (Vety. Biochemistry), CVSc, Khanapara for condoning the excess period of absence for completing PhD studies at IVRI, Izatnagar by granting leave without pay.	Letter issued to the Dean, FVSc, AAU, Khanapara vide No.AAU/RG/ ACAD-234(AT)/2020-21/ 7456, dated 26.02.2021

12.	A. I. No 12. Consideration of the appeal made by Dr. Aditya Baruah, Asstt. Professor (VPHE), LCVSc, Joyhing to permit him to carry out his PhD research work.	Letter issued to the Dean, FVSc, AAU, Khanapara vide No.AAU/RG/ACAD-234(AT)/2020-21/ 7464, dated 26.02.2021
13.	A. I. No 13. Consideration of an appeal made by Mr. Tabaruk Hussain, a final year MBA student of AAU to allow him to get admitted into PhD programme in the Department of Agricultural Economics & Farm Management .	Letter issued to the Chairman, BoS, FA, AAU, Jorhat vide No.AAU/RG/ACAD-234(AT)/2020-21/ 7623, dated 08.03.2021
14.	A. I. No 14. Consideration of the proposal for implementation of DBT-supported MVSc programme in Animal Biotechnology under new terms and conditions.	Letter issued to the Chairman, BoS, FVSc, AAU, Khanapara vide No.AAU/RG/ ACAD-234 (AT)/2020-21/ 7627 dated 08.03.2021
15.	A. I. No 15. Fixation of minimum cut-off marks for the candidates under High Fee Category (HFC).	Letter issued to the General Secretary, AAUTA vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7618 dated 08.03.2021
17.	AOI No. (a). Conduct of Mid-term/End-term Examination for the current Semester/ Academic Year.	Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 6919-39 dated 28.01.2021
	AOI No. (b). Commencement of new Academic Session.	Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 6802-21 dated 27.01.2021

		Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 6963-82 dated 30.01.2021
		Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 6897-6917 dated 28.01.2021
	AOI No. (c). Admission Report 2020-21.	Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7633 dated 09.03.2021
	AOI No. (d). Shifting of Courses on Statistics from one semester to another.	Letter issued to the Chairman, BoS, FCSc, AAU, Jorhat vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7651 dated 09.03.2021
	AOI No. (e). Conduct of RAWEP-4210 under the Faculty of Community Science.	Letter issued to the Chairman, BoS, FCSc, AAU, Jorhat vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7654 dated 09.03.2021
	AOI No. (f). Proposal for allowing the faculty members pursuing PhD degree to act as Major Adviser for Master's degree student, after availing 1/1.5 year of study leave.	Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7657 dated 09.03.2021
	AOI No. (g). Syllabus for DBT-sponsored MSc Programme in Agricultural Biotechnology.	Notification issued vide No.AAU/RG /ACAD-234(AT)/2020-21/ 7674 dated 09.03.2021

Report on action taken on the decisions of the 235th meeting of the Academic Council held on March 22, 2021.

Item No.	Agenda	Action taken
3.	A.I. No.3. Report on Action-taken on the decision of the proceedings of the 234th meeting of the Academic Council held on January 25, 2021.	Letter issued to all Deans and Assoc. Deans vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 119-127, dated 08.04.2021 The proposal has been forwarded for consideration of the BoM.
4.	A.I.No.4. <i>Aamar Gaon Amaar Gaurav</i> (AGAG)--- An Innovative initiative of AAU	The proposal has been forwarded for consideration of the BoM
5.	A.I. No. 5. Consideration of the recommendations of the Committee constituted for examining the issue of granting permission for higher studies in respect of serving teachers/SMS/research functionaries.	Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 440, dated 13.04.2021
6.	A.I.No.6 Consideration of the proposal for creation of posts under LCVSc, Joyhing.	The proposal has been forwarded for consideration of the BoM. Letter issued to the Dean, FVSc, AAU, Khanapara, vide No.AAU/ RG/ ACAD-235(AT)/ 2021-22/ 708, dated 06.05.2021

7.	A.I.No.7. Curriculum Development for Agricultural Engineering.	Notification issued vide No.AAU/RG/ACAD-235(AT)/2021-22/ 131, dated 08.04.2021 Notification issued vide No.AAU/RG/ACAD-235(AT)/2021-22/ 131, dated 08.04.2021
8.	A. I. No. 8. Consideration of a proposal for institution of Cash Award in the memory of Late Subrata Borah, former PhD student under the Department of Plant Pathology.	Letter issued to Mr. Chandra Gupta Borah, Milan Nagar G-Lane, House No. 28, Dibrugarh, Assam vide No.AAU/RG/ACAD-235(AT)/2021-22/ 146, dated 08.04.2021
9.	A. I. No. 9. Consideration of NWAC-accredited High School Diploma programme as eligibility qualification for admission in under-graduate courses of AAU.	Letter issued to the Chief Administrative & Communication Officer, NWAC, USA Regional Office, New Delhi-110034, vide No.AAU/ RG/ ACAD-235(AT)/2021-22/ 712, dated 06.05.2021
10.	A. I. No 10. Consideration of the recommendations of the Committee constituted for suggesting a set of guidelines for engagement of suitable persons/ experts for conduct of specialized classes/sessions on hourly basis.	Notification issued vide No.AAU/RG/ACAD-235(AT)/2021-22/ 147, dated 08.04.2021
11.	A. I. No 11. Empanelment of AAU as Cluster Based Business Organization (CBBO) under NABARD.	The proposal has been forwarded for consideration of the BoM.

12.	A. I. No 12. Establishment Agricultural Market Intelligence Unit (AMIU) under APART.	Letter issued to the In-charge, ARIS Cell, AAU, Jorhat, vide No.AAU / RG/ ACAD-235(AT)/ 2021-22/ 716, dated 06.05.2021 The proposal has been forwarded for consideration of the BoM.
13.	A. I. No 13. Consideration of the revised DPR and renaming of College of Horticulture at Nalbari.	The proposal has been forwarded for consideration of the BoM.
14.	A. I. No 14. VISION 2050: Assam Agricultural University.	The proposal has been forwarded for consideration of the BoM.
16.	A. I. No 16. Post-facto approval for establishment of AAU Agriculture Technology Business Incubator {North East Agriculture Technology Entrepreneurs' Hub (NEATEHUB)}.	The proposal has been forwarded for consideration of the BoM.
17.	AOI No. (a). Consideration of the recommendations of the Admission	Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 494, dated 22.04.2021

	Committee.	Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 528, dated 22.04.2021
	AOI No. (b). Extension of time for submission of Thesis.	Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 22, dated 03.04.2021 Addendum issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 80, dated 07.04.2021
	AOI No. (c). Recommendations of the BoS, Faculty of Veterinary Science.	Letter issued to the Chairman, BoS, FVSc., AAU, Khanapara vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 353, dated 12.04.2021 Letter issued to the Dean, FVSc., AAU, Khanapara vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 356, dated 12.04.2021 Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 359, dated 12.04.2021
	AOI No. (d). Recommendations of the BoS, Faculty of Agriculture.	Letter issued to the Dean, FA, AAU, Jorhat vide No.AAU/RG/ ACAD- 235(AT)/2021-22/ 367, dated 12.04.2021 Letter issued to the Dean, FA, AAU, Jorhat vide No.AAU/RG/ ACAD-

		235(AT)/2021-22/ 372, dated 12.04.2021 Letter issued to the Dean, FA, AAU, Jorhat vide No.AAU/RG/ ACAD- 235(AT)/2021-22/ 372, dated 12.04.2021
	AOI No. (e). Submission of Registration forms by the newly admitted students.	Notification issued vide No.AAU/RG/ ACAD-235(AT)/2021-22/ 511, dated 22.04.2021

6.6.2.2. Innovation and Best Practices

What are the innovative efforts that help in its academic excellence?

Innovative efforts for academic excellence

Assam Agricultural University has initiated different innovative efforts for the academic excellence. Some of the major efforts are as follows.

- Use of Computer Assisted Learning Devices like Animation Programmes, Computational Drug design, Bio-informatics, Group Discussions & Brain storming sessions.
- Hands on training on inquiry and problem based learning by giving the students exposure to ground realities in farmers' field as a part of practical classes.
- Design and modeling of scientific apparatus for taking routine practical classes and research.
- Online classes, videos for practical works, slideshow presentation with multimedia and multidisciplinary approach in teaching –learning process.
- Institution of Academic Excellence Award to Students Securing Highest GPA by various Departments of College of Veterinary Science, Khanapara
- Mentors for students for JRF/AIEEA preparation.
- Intensive coaching of students to JRF and SRF preparation in online and offline mode in regular manner.
- Organization of Orientation Workshop on Teaching Technology
- Organizing online training, online webinar by the different departments of constituent colleges
- Application of “URKUND” to detect plagiarism with a view to improve the quality of publication.
- Organization of Faculty Orientation Programme for newly recruited Assistant professor across the faculty.
- Training of faculties on teaching capacity enhancement for middle and senior level teachers.

6.6.2.3 Library

Write about the University library (in one page) mentioning its space for stocking and reading, automation, library staff, library committee meetings, library management system, text books availability, subscription of research journals, periodicals, e-journals and other necessary state-of-the-art software/ programme, timing etc.

Rev B M Pugh Library, the knowledge hub of agriculture and allied areas, was established in the year 1969 is housed in a building covering plinth area of **10925 sq. ft.** comprising of 3 floor located at head quarter of Assam Agricultural University, Jorhat. It cater the information need of students, teachers/scientist, research scholars, extension personnel and other staff of the colleges such as College of Agriculture, College of Community Science, College of Horticulture and College of Sericulture in particular and entire university community in general.

It has its branch libraries at the College of Veterinary Science, Khanapara; College of Fisheries Science, Raha; Biswanath College of Agriculture, Biswanath Chariali; Sarat Chandra Singha College of Agriculture, Dhubri and Lakhimpur College of Veterinary Science, Lakhimpur.

Library in College of Veterinary Science was established and operational since the establishment of the College in 1948. The library covers an area of 691.02 sq meters.

Library of Biswanath College of Agriculture was established after establishment of the college in 1988. Existing library covers an area of **950 sq meters**.

Library at SCS college of Agriculture was established after the establishment of the college in the year 2010. It covers an area of **625.69 sq meters**.

Library at College of Fishery Science was established after the establishment of the college in 1988. Current library covers an area of **120 sq meters**.

Lakhimpur College of Veterinary Science started its library facility in the year 1987. Current Library covers an area of 62.43 sq meters.

Library Space for reading, Stacking and other important section of Rev B M Pugh Library at Jorhat

Floor	Section	Area (Sq ft)
Ground floor	Reprographic Unit	160
	Assistant Librarian & Circulation Section	914
	Reading Hall I	1408
	Current Periodical and E-resource section	1408
	Chief Librarian Office area	416
	Technical Processing Section	608
	Documentation Officer & Accounts Section	600
First Floor	Stack areas with reading Space	4856
	Reading Hall II	1408
	Book Bank and Text Book Reference Section	1408
	Deputy Librarian's Chamber	308

Second floor	Entirely occupied by the Back Volume of Journals, periodicals and reports.	2795
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Library Staff

Jorhat	Khanapara	Biswanath Chariali	Dhubri	Raha	Lakhimpur
Chief Librarian : 1 Deputy Librarian: 1 Assistant Librarian: 1 Documentation Officer: 1 Sr Technical Assistant: 1 Technical Assistant: 1 Library Assistant: 3 Jr Library Assistant /Library Maintenance Assistant: 5 Sr Administrative Assistant: 1 Jr Account Assistant: 1 Binder/ Day Chokidar: 2	Deputy Librarian i/c: 1 Assistant Librarian: 1 Administrative Staff: 1 JLA/ Library Maintenance Assistant: 03	Library In-Charge :1 Library Assistant: 1 JLA:1	Library In-Charge : 1 Library Assistant: 01	Library In-Charge: 1 Library Assistant: 1 JLA: 1	In charge Library: 1 Library Assistant: 1 Messenger:1

Library Holdings

AAU at Jorhat

S/N	Items	No.	Remarks
1.	Availability of Text/Reference book	152297	
	Gift Book	36030	
2.	Subscribed Research Journal	29	As per record of 2020 subscription
3.	Subscribed Periodical (Popular Magazine)	06	
4.	A. E- Book B. Subscribed E-Journal : 1. CeRA (2809) 2. Delcon (926)	3801 3735	All E-journals are accessed through e-journal consortia CeRA and Delcon. Open access from Science Direct is also available in the field of Physical Sc, Life Sc, Health and Social Sc.

CVSc., AAU, Khanapara

S/N	Items	Number
1	Text Books	20480
2	Reference Books	12582
3	Rare Books	NA
4	Gift Materials	409
4	Current Periodicals/Research Journals	08
5	Back Volumes	2710
6	News Paper	09
7	Ph.D Thesis	259
8	M.V.Sc. Dissertations	1233
9	Reports	863
10	Weekly Periodicals	01
11	E-Books	270

BNCA, Biswanath Chariali

S/N	Items	Number
1	Text Books	10035
2	Reference Books	2563
3	Rare Books	02
4	Gift Materials	Nil
4	Current Periodicals	08
5	Back Volumes	210
6	News Paper	03
7	Thesis/Dissertation	51
8	Abstract	4

SCSCA, Dhubri

S/N	Items	Number
1	Text Books	3678
2	Reference Books	300
3	Current Periodicals/Research Journal	01
4	News Paper	02

CFSc., Raha

S/N	Items	Number
1	Text Books	3971
2	Reference Books	630
3	Rare Books	20
4	Gift Materials	2185
5	Back Volumes	250
6	News Paper	05
7	Thesis/Dissertation	26

LCVSc., North Lakhimpur

S/N	Items	Number
1	Text Books	2651
2	Reference Books	53
3	News Paper	03

Library management system

The Chief Librarian, Assam Agricultural University looks after the management of the Central library of main campus as well as the campus libraries of constituent colleges by exercising all the power as delegated to him by AAU act 1988 (As amended). He is assisted by Deputy Librarian, Assistant Librarian and Documentation officer in the overall management of the Library.

Library Committee Meeting

The AAU Library system follows the participative type of management, where two deferent type of library committee advises Chief librarian on various affairs of the functioning of library from time to time.

1. **Library Advisory Committee** is the University level apex body for management & policy formulation for the library. It is headed by the Vice Chancellor as chairman and represented by Deans, Directors, Teachers/ Students representatives of headquarter as well as constituent colleges. Last Library Advisory (Central) Committee was held on 27/12/2019
2. **Campus Level Library Advisory Committee** is headed by Dean as Chairman and representative for Teachers; Students are the member of the committee. The committee advices library management in various important affairs of library such as selection of library collection both print and e-resources, rational distribution of fund among the departments. Campus level library advisory committee was held on:

Library Automation

Rev. B M Pugh Library along with campus libraries of constituent colleges have implemented automation of library by introducing ICAR recommended Library Management open source software KOHA which is sponsored by ICAR under Library strengthening. The surveillance system of the Rev B M Pugh Library is fully covered by CCTV with powerful camera including night vision provision in certain areas. Access of vast number of e-resources can be done by log on to CeRA, Krishikosh and DELCON through high speed bandwidth internet connectivity. Off campus Library user can also avail such facility by using Ezproxy server. The Rev B M Pugh Library also provides Electronic Document deliver service to deferent ICAR, SAU and CAU institute across the country.

Software and ICT Tools & Platform

For accessing E-resources ICT infrastructure facilities available for the Users are,

- i. Koha: Library Management Software

- ii. Eproxy: Remote authentication software licensing for accessing E-resources
- iii. DSpace (Digital Repository Software through Krishikosh)

ICT Infrastructure & Other facilities

Jorhat	Khanapara	Biswanath Chariali	Dhubri	Raha	
Desktop computers & Laptop: 53 nos	Desktop Pc & Laptop: 22 nos.	Desktop Pc: 5	Desktop Pc: 4	Desktop Pc: 4	Desktop Pc: 1
Printers: 13	Printers: 6	Printer: 1	Printer: 1	Printer: 1	
Scanners: 03	UPS 30KVA: 1	Slip Printer: 1	Slip Printer: 1	Slip Printer: 1	
	UPS 2KVA: 2	Barcode Printer: 1	Barcode: 1 Printer	Barcode Printer: 1	
	Air Conditioner: 6				
	Diesel Gen Set 30 KVA: 1				

Training Programme

Library organizes regular library orientation programme on regular intervals at the beginning of academic session and also jointly conducts post graduate level sensitization programme in collaboration with ICAR. Prominent among them:

1. Sensitization Workshop on ``Agricultural Knowledge Management Tools in the Net worked Digital Environment`` held at AAU, Khanapara, Guwahati campus on 30th January 2019.
2. Virtual Sensitization Programme on`` Knowledge Management in digital Environment`` held on 2nd December 2020 at AAU Jorhat Campus.
3. Library also offers PGS 501(Library and Information Services) course to the PG students which is compulsory.

Library Timing

Rev. B M Pugh Library at Jorhat campus remains open from 8-00am to 8-00 pm in all working days during summer season while in winter the working time is from 8-00am to 7-00pm. On Sunday the library remains open from 9-00am to 1-00pm.

Library at College of Veterinary Science remains open from 8.00 am to 8.00 pm in every working day while Library at Biswanath College of Agriculture remains open from 8 am to 6 pm, Library at SCS college of Agriculture, Dhubri remains open from 8.00 am to 5.00 pm, Library at College of Fishery Sciences, Raha remains open from 9.00 am to 7.00 pm and Library at Lakhimpur College of Veterinary Science remains open from 10.00 am to 5.00 pm.

6.6.2.4 Center for Excellence/Advance Studies/Centre for Advanced Faculty Training

Clearly mention about the name, number, year of establishment, funding agency and outcome of Centre for Excellence/Advance Studies/Centre for Advanced Faculty Training.

Clearly mention about the name, number, year of establishment, funding agency and outcome of Centre for Excellence/Advance Studies/Centre for Advanced Faculty Training.

Centre of Advanced Faculty Trainings (CAFT) centre established in the university at Department of Soil, Faculty of Agriculture conducted 6 programs during the year from 2017 to 2020, which are enlisted in the following Table.

Sl. No.	Name of the program	Funding agency	period	Number of participants		
				Internal	External	Total
1	Culturing Techniques for Biofertilizers and Biopesticides	ICAR, New Delhi	7-27 November, 2017.	4	10	14
2	Recent developments in organic production systems	ICAR, New Delhi	7 th -27 th February, 2018	5	13	18
3	Techniques in Biofertilizers and Biopesticides production for organic agriculture	ICAR, New Delhi	14 th November – 4 th December, 2018.	4	11	15
4	Developments in organic agriculture	ICAR, New Delhi	6 - 26 February, 2019.	5	12	17
5	Exploitation of beneficial microbes in organic agriculture	ICAR, New Delhi	4 th to 24 th September, 2019.	5	18	23
6	Organic agriculture and soil health	ICAR, New Delhi	To be held from February 20 to March 11, 2020	6	17	23

Outcomes:

Infrastructure Development

a. Equipment purchased during 2018-19

Sl. No	Name of equipment	Cost (Rs)
1	Refrigerator	28,700.00
2.	KEL PLUS Automatic Nitrogen Digestion & Distillation Unit	2,85,137.00
3.	Hot Air Oven	27,300.00
4.	Autoclave	56,049.00
5.	Magnetic stirrer with hot plate	5,310.00
6.	Temperature controlled water bath	13,954.00
7.	Electronic precision balance	49,560.00
8.	Top loading balance	29,500.00
Total		4,95,510.00

- b. **Renovation and repairing of class room:** Expenditure made during 2018-19 Rs. 4,91,217/- (Rupees Four lakh ninety one thousand two hundred seventeen) only

c. Library up gradation

Book purchased in Financial Year :2017-18

Sl. No.	Name of the book	Author name	Publisher	Quantity
1.	Plant Diseases: Biocontrol Management	Trivedi	Aavishkar	1
2.	Relevance of Organic Farming	Jana	Aavishkar	1
3.	Fungal Biopesticides and VAM Applications	Trivedi	Pointer	1
4.	Organic farming for improving fertility of soil	Pradhan	Daya	1
5.	Biopesticides for Sustainable Agriculture	Ameta	ATPA	1
6.	Organic farming and biofertilizers: Scope and uses of biofertilizers	JDS Panwar	NIPA	1
7.	Organic Farming and Mycorrhizae in Agriculture	Trivedi	IK	1
8.	Natural Organic Biological, Ecological and Biodynamic Farming	Tiwari	Agrotech	1
9.	Bio Pest Management	Gupta	ATPA	1
10.	Plant Protection Practices in Organic Farming	Sharma	IBD	1
11.	Organic Agriculture For Sustainable Livelihood	Finn	Agrotech	1
12.	Organic Crop Breeding	Singh	Agrotech	1
13.	Organic farming: Standard, Accreditation, Certification and Inspection	D. Gehlot	Agrobios	1
14.	Organic Agriculture Development In India (hb)	Gupta	Abd	1
15.	Organic Fruits Growing	Patil	Agrotech	1
16.	Handbook of Microbial Biofertilizers	Awani	Agrotech	1
17.	Organic Farming, Prototype for Sustainable Agriculture	Reynold Finn	OBC	1
18.	Biofertilizers for Sustainable Agriculture		Aavishkar	1
19.	Organic Farming	T.D.Pandey	Kushal	1
20.	New Vistas of organic Farming	Mukund Joshi	Scientific Publisher	1
21.	Principles of Organic Farming	S.R.Reddey	Kalyani	1
22.	Organic Farming for Sustainable Horticulture	P.P. Reddy	Scientific	1
23.	ABC of Organic Farming	AmitavRakshit	JB	1
24.	Organic Farming	N. Ravisankar&associates	ICAR-IIFSR, Modipuram	1

d. Book purchased in Financial Year: 2018-19

	Book Name	Main Author	Publisher	Qty
1.	Applied Microbiology (Agriculture, Enviromental ,Food & Industrial Microbiology	Reddy S.M	Scientific	2
2.	Biocontrol of Soil Bore Pathogens and Nematodes	Nakkeeran	NPH	2
3.	Microbes and sustainable plant productivity	Jamaluddin	Scientific	2
4.	Prescott's Microbiology 10 th Ed.	J.M. Wiley	McGraw Hill	1
5.	Traditional Knowledge of Organic Farming	R.M. Plant	Akansha	2
6.	Organic Farming Components and Management	Gehlot	Agrobios	1
7.	Organic Farming Theory and Practice	Palaniappan	Scientific	2
8.	Organic Farming Standard accreditation Certification And Inspection	Gehlot	Agrobios	1
9.	Organic Farming Hardcover	A.k. Singh	NIPA	2
10.	Organic Farming Concepts, Application and Advance	S. Chand	Astral	3
11.	Organic farming Principles, Prospects and Problems	Deshmukh	Agrobios	1
12.	Soil Health for Better Crops	Jana BL		1
13.	Soil Suitability for Crop Productivity	Singh AK & Singh RS		1
14.	Soil , Water and Plant Nutrient management	Sarkar AK et al		1

Budget :

Budget utilized during 2017-2020

Head		2017-18	2018-19	2019-20
Operating expenditure	1 st training	399389	439849	588044
	2 nd training	514293	536730	521651
Recurring contingency		399879	396694	-
T.A.		-	-	-
Books		34905	34215	-
Additional grant-in-aid (creation of capital assets)	Equipment	-	495511	-
	Minor repairing / renovation	-	491217	-
	Total	1348466	2394216	

6.6.2.5 Incubation Center/Start up units/ Venture capital

Provide the list of incubation centre(s) start up units/ venture capital set up by the University for the promotion of technologies generated at the University.

Incubation Center

The North East Agriculture Technology Entrepreneurs Hub (NEATEHUB) is an Agri Technology Business Incubator for startup companies and has been registered as a not-for-profit Section-8 company in September 2018, under the aegis of Assam Agricultural University, Jorhat, Assam. As a Section-8 company, the incubator has 3 Directors on Board with 2 Directors from the University and one from the corporate sector. NEATEHUB, is headquartered at AAU-Main campus, Jorhat; with a mandate to nurture agri-entrepreneurs across the North East Region, who may be at various stages of their entrepreneurial journey. The Incubator focuses entrepreneurship development based on those technologies having impact on Agriculture and Allied sectors and also promotes entrepreneurs who are working on emerging technologies.

Currently, the incubator is funded by Atal Innovation Mission of NITI Aayog, Govt. of India as well as RKVY-RAFTAAR scheme of Dept. of Agriculture & Farmers Welfare, Govt. of India. NEATEHUB is also recognized by DAF&W as a Centre of Excellence/ Knowledge Partner to handhold the establishment and operationalization of three Incubators in North East Region – one each in Arunachal Pradesh, Mizoram and Tripura.

NEATEHUB has the following two distinct programmes currently:

- A two-month residential agri-entrepreneurship orientation programme for entrepreneurs who are at an idea stage, which need curation and nurturing, to create a prototype/ a minimum viable product. This programme is known as *Isanya* (Pre-seed stage) and currently, the fourth cohort is in progress.
- A year-long Incubation programme for early stage and growth stage startup companies who are already registered as a legal entity, and need mentoring and funding support in order to scaleup. This programme is known as *Saranya* (Seed stage) and the third cohort is underway.

Funding support in the form of grant-in-aid to the tune of upto Rs. 5 lakhs is available for eligible entrepreneurs under *Isanya* (Pre-seed stage), while grant between Rs. 10 to Rs. 25 lakhs is available for *Saranya* (Seed stage).

The Incubator offers services such as Technology and IPR support, business mentoring, co-working space with plug and play environment, pilot production facility, marketing support, labs-dry, wet and smart analytics, alongside seed funding and access to investors. In addition, specialized pre incubation training, admin, accounting and legal services for the start-ups are provided by the organization. High quality personalised mentoring and coaching for business

growth is also given to the budding entrepreneurs. North East being a tribal dominated region, special fellowships opportunities for tribal youths are on the anvil.

So far, NEATEHUB has incubated 87 startup entrepreneurs across these two programmes and are at various stages of their entrepreneurial journey. The NEATEHUB has a Governing Board and an Advisory Board which guides the functioning of the Centre. Besides, the Incubator has a pool of business mentors and technical advisors who are mentoring and handholding the incubatee entrepreneurs.

The core sectors of focus for NEATEHUB are horticulture, livestock, fisheries, food processing, soil conditioning, natural fibre, textile, medicinal and aromatic plants, digital agriculture, and small farm machinery etc.

NEATEHUB believe in co-creation and in complementation to build a world class incubator and towards that it has entered into collaboration with various academic, research institutes, funding agencies, financial institute etc. Since its inception over a year and a half back, NEATEHUB has signed Memorandum of Understanding with Assam Startup Nest, IIT-Guwahati Biotech Park, KIIT-TBI Bhubaneshwar, NEDFi (North Eastern Development Finance Corporation Ltd), IIE Guwahati and CSIR-NEIST Jorhat. To bring in the best practices elsewhere in the world NEATEHUB is also collaborating with Bill and Melinda Gates Foundation for leveraging and connecting mentors from a global diaspora.

The AAU Incubator has planned to work on a hub and spoke model with its own satellite centres in strategic districts of Assam as well as in other North Eastern states to turn the region to an agribusiness entrepreneurial hub. Currently it is headquartered in Jorhat and has a branch in AAU Guwahati campus.

Start up units

So far, NEATEHUB has incubated 87 startup entrepreneurs.

List of Startup Units

Sl No	Name of Start Up	Name of the Founder	Location (State)	Focus Area
1	Arian Mushroom Farm	Doli Rani Das Haloi	Assam	Value Added Product
2	Jay Vermi Compost	Kanika Talukdar	Assam	Crop Management
3	Jalkuwari	Dipankar Kashyap	Assam	Allied Sector (Biofloc for fishery)
4	Mahabahu Agro Food Infra	Manash Bordoloi	Assam	Value Added Product
5	Aranyak	Shebul Ahmed	Assam	Agro Tourism
6	Not Available	Trideep Khanikar	Assam	Service
7	Not Available	Nipen Chetia	Assam	Allied Sector (Piggery)
8	Agspert	Siddharth Sagar Bora, Kookil Pran Goswami, Dhritiman Talukdar	Assam	Precision Farming
9	Not Available	Nitin Ronghang	Assam	Allied Sector (Piggery)
10	Donsuri Pig Breeding Unit	Rimbika Tokbipi	Assam	Allied Sector (Piggery)
11	B & B Florist	Bornali Dutta	Assam	Floriculture
12	Newborn Enterprise	Pranjal Medhi	Assam	Food Processing

13	Chamuah Technocrats LLP	Amar Jyoti Chamuah	Assam	Farm Mechanization
14	Not Available	Amal Medhi	Assam	Allied Sector
15	Pasoli Agro Industry Private Limited	Alok Hazarika	Assam	Supply Chain Management
16	Ruloi Tea Trading Pvt Ltd	Bijit Sharma	Assam	Supply Chain Management
17	M/S Pahi	Golap Kalita	Assam	Value Added Product
18	Jeev Anksh Eco Products Pvt. Ltd	Gunajit Brahma	Assam	Value Added Product
19	Symbiotic Foods Pvt. Ltd	Manoj Bosumatary	Assam	Allied Sector
20	V.S.Solutions	Amit Sharma/Archana Dixit/Akash Dixit	Assam	Post Harvest & Food Technology
21	Innotech Agropostikum	Priyangshu Sharma	Assam	Value Added Product
22	Brightcrop Agro Products Pvt Ltd	Manjul Choudhury/Harsh Rakhecha	Assam	Supply Chain Management
23	Nahakpam Food & Beverages	Shanta Singh Nahakpam	Manipur	Food Processing
24	Agro Origin	Mr.Abhinab Shyam	Assam	Agri-tech
25	Binita Mushroom Centre	Rajkumari Binita Devi	Manipur	Value Addition of Mushroom
26	Ningthoujam Max enterprises	Ningthoujam Max Singh	Manipur	Insect (crickets) Proteins
27	F2C	Okram Premjit Singh	Nagaland	Feed from Animal Protein
28	ABC Enterprises	Suneet Talukdar, Pradip Talukdar	Assam	Waste to Agri
29	Vetline 275	R Talimoaalimoa Mollier	Nagaland	Animal Husbandry/Agri tech
30	M/s VEDAM AGRO ENTERPRISES	Founder-Dr. Kshetrimayum Vedmani Devi Co-founder Dr. Thiyam General	Manipur	Food Processing
31	Parksiar Agro Services	Peter Wesley Wallang	Meghalaya	Supply Chain Management
32	Gift 4m North East Pvt Ltd	Bornali Sarma Boruah & Mr Manik CS Bordoloi	Assam	Retort Packaging
33	Core Organica	Mriganka Barman	Assam	Organic Farming, FAS
34	Ngayam Foods	Khayiwon Shangh	Manipur	Food Processing
35	Naro Ki	Watila Longkumer	Nagaland	Floriculture: Cut Fresh Flowers
36	Barnalee Bio Agrotek	Chaitanya Goswami	Assam	Organic Agri inputs Manufacturing
37	BIHANGAM AGRO	Amrit pritam bhuyan	Assam	Food Processing & Value Addition
38	Khetvilla	Dhrubajyoti Kakati	Arunachal Pradesh	Supply Chain Management
39	M S Madhur Food Product	Ms. Amrit Madhuri Devi	Assam	Food Processing & Value Addition
40	Food Stride	Ngamnon Joham	Arunachal Pradesh	Food Processing & Value Addition
41	INDILUV	Dhruba Jyoti Deka	Assam	Natural Resource Management
42	Dey s Ayurvedic	Rajib Dey	Assam	Medicinal & Aromatic Plants
43	Terragree Solutions	Ms. Asmita Bhagabati	Assam	Protected Cultivation
44	Sinaki (proposed)	Partha Jyoti Borthakur	Assam	Supply Chain Management

45	Farm Fresh	Supriya Chhabra Jain	Assam	Agricultural Biotechnology
46	BroQuail	Ms. Rashmi Rani Boro	Assam	Agricultural Biotechnology
47	Pure Seed Agro Products	Hemanga Bora	Assam	Crop Management
48	Sanajing Sana Thambal	TONGBRAM BIJIYASHANTI DEVI	Manipur	Agri Waste to Wealth
49	Hy-Food	Ms. Chinmoyee Rajkumari	Assam	Food Processing & Value Addition
50	Just Local	Jagat Jyoti Baruah	Assam	Food Processing & Value Addition
51	Joibik Organics Private Limited	Mr. Pankaj Kumar Das	Assam	Agriculture Input Supply
52	MANOHAR AGRO SOLUTIONS LLP	MANJIB SHARMA	Assam	Animal Feed
53	Angel Agro	Milan Borah	Assam	Farm Mechanization
54	Kraftinn Home Decor India Pvt Ltd	Parikshit Borkotoky	Assam	Bamboo craft
55	Ms Tinash Agro Industries	Tinash Ch Momin	Meghalaya	Supply chain Management
56	Maitrayee Tea	Mr. Satyajit Bora	Assam	Food Processing & Value Addition
57	TEAORB SERVICES LLP	Mr. Bahnniman Kakati	Assam	ICT, IOT & AI in Agriculture
58	MS Endurant Rope Industry	Madhurja Das	Assam	Food Processing & Value Addition
59	Manorama Foods and Agrotech	Monalisha Borthakur	Assam	Food Processing & Value Addition
60	Farmers Career Point Nursery	Mr. Arshad Firdous	Assam	Nursery
61	Tholua® Pratisthan Pvt. Ltd.	Mr. Trailukya Dutta	Assam	Food Processing & Value Addition
62	Soielife	Smrita Pradhan	Sikkim	Natural Resource Management
63	NE DUKAN	Mr. Ningthem Ningombam	Manipur	Supply Chain Management
64	Forest Pick	Boilal Gangte	Manipur	Food Processing & Value Addition
65	Bee Manufacturing Entreprises	Dr. Wahengbam Bembee Devi	Manipur	Food Processing & Value Addition
66	Bor Noi Organics Pvt. Ltd.	Mr. Gautam Hazarika	Assam	Agri Marketing
67	SOHOTA	Mr Abhishek Sarkar	Assam	Farm Mechanization
68	Jerenga Technologies	Chinmoy Kumar Phukon	Assam	ICT, IOT & AI in Agriculture
69	AAMI	Mrs. Nandita Dowerah	Assam	Agri Handicrafts
70	Sarkar Firm	Mr. Majaharul Islam Sarkar	Assam	Animal Husbandry/Agritech
71	Trueganics	Manjit Kashyap	Assam	Supply Chain Management
72	Moriesh Duck	Dr. Syed Alimaz Hussain	Assam	Animal Husbandry
73	The Leafy Story	Mr. Nummeir Ahmed	Assam	Agri-marketing
74	Kalita Food Product	Anima Kalita	Assam	Food Processing & Value Addition
75	Lamzing Technologies Private Limited	Ailan Maibam	Manipur	ICT, IOT & AI in Agriculture
76	MILLIAMPS AUTOMATION	DIPJYOTI DEKA	Assam	Automation in Agriculture
77	Mehtaza Textiles Pvt. Ltd	Mr. Zahid Hazarika	Assam	Sericulture
78	Brahmaputra technoPharmaceuticals Pvt. Ltd.	Somnath Chanda	Assam	Neutraceuticals
79	Alia Biosys	Dr.Asim Zubair	Tamil Nadu	Agri-biotechnology

80	Allied Crop Care Pvt. Ltd	Mr.Sankaracharya Rabha	Assam	Seed production
81	M.P.R POULTRY FEEDS	MUKUNDA MADHAB GOGOI	Assam	Animal Husbandry
82	Namsesu	Jonali Goswami Baruah	Assam	Tea Husbandry & Processing
83	JGM Industries	Mr. Prabhu Gupta	West Bengal	Medicinal & Aromatic Plants
84	SURGE I Foundation	anjan kumar sarma	Assam	Agri-marketing
85	NEBDH PLOW Private Limited	BIJOY KUMAR GOGOI	Assam	Floating Fish Feed production
86	ASSAM INNOVATION & RESEARCH CENTRE	Mr. Milan Jyoti Das	Assam	Poultry Incubator
87	Earthy Fresh	Pranab Jyoti Barman	Assam	Agri-Marketing

Venture capital

The University has successfully able to garner seed grant funding to the tune of Rs 16.4 Cr from Atal Innovation Mission, NITI Aayog and RKVY-RAFTAAR, DAC&FW, GoI. The university also plans to create an agri investment corpus for small ticket funding support to agri startups incubated AAU-Incubator. Further, there are plans to raise funds from the corporate sector.

Moreover, the University has decided to invest Rs. 200 lakhs during 2021-22 for income generating activities through various venture capital funding in select areas.

6.6.2.6 Technology Enabled Learning Resources

Technology allows for personalizing learning, building capacity of teachers and driving decisions based on real-time data. What kind of infrastructure, digital content, teacher training and data systems have been created in this regard. What are monitoring and evaluation frameworks to maintain and sustain these facilities?

Infrastructure and digital content

College of Agriculture

- One classroom of each department is strengthened with optimum Smart Classroom facilities.
- Centrally located smart classrooms for UG programme with air conditioner and adequate power backup.
- A Campus LAN on fibre-optic backbone connects all departments and establishments in the Jorhat Campus with the Central Server Site of ARIS, by which Internet and e-mail facility are made available to all teachers and officers of the University through VSAT (ernet).
- Internet facility is also available for the students in the Cyber Café located in the Central Library.
- Video conferencing facility is located in the ATIC building.
- Standby generator facility is available for class rooms, Central Library, Auditorium, Administrative building & water filtration plant during electrical outages.
- A Central Instrumentation Centre is available for Faculty and PG research.
- To facilitate Experiential Learning programme, different units namely Agro-Processing Unit (270 sq.m), Food Processing units (405 sq. m), Bio-fertilizer Production Unit (240 sq.m), Oil Distillation Plant (45.67 sq.m) and Plantation Crop Unit (156 sq.m) have been set up.

Biswanath College of Agriculture

- College has smart class room facilities to enable to deliver course curricula. Four smart classrooms along with interactive display board facilities have been developed for delivering ICT based curricula.
- Besides promoting the use of ICTs in theory and practical classes, the massive effort has been undertaken to automate and digitalize the college library. Ten (10) computers with two printers have been installed in new Library building for internet purpose to be used by the students.
- The college is presently assessing internet connectivity through FTTH technology which is delivering high speed internet service at Library, academic blocks, hostels and offices

using optic fibre replacing the existing cable infrastructure. E-Resources Access Facility (through internet browsing) is available in the library premises on the basis of a user account created in the AAU Captive Portal which is strictly provided by the System Administration i.e. ARIS cell of the AAU.

- There is also the provision of access to the internet by the visitors on request of a guest account created by ARIS accordingly. Besides providing dedicated user service, the library is also acquainted with extending quality user education programmes. Library orientation is one of the most common user education programmes that are provided to the users of the college, in particular the UG students.
- There is a well-equipped computer laboratory with 30 computers with necessary accessories and also have the provision for LAN connectivity. Internet connectivity for the computer lab is yet to be done. Out of 30 computers, 11 are equipped with SPAR and SPSS software while 2 computers are equipped with SAS software.

SCS College of Agriculture, Dhubri

- The undergraduate classes are held centrally in Classroom complex where four numbers of rooms are available. Among these four classrooms, three classrooms are smart classroom along with interactive display board facilities for conducting theory class and are sufficient to meet the requirement of UG degree programme.
- One classroom having air-conditioned facility has been earmark as examination hall
- There are altogether 13 UG practical laboratories distributed in various departments. The facilities including equipments in the laboratories are sufficient to meet the requirement of UG degree programme.
- There is a well equipped computer laboratory for conducting the computer related class. There are 30 computers with necessary accessories and also have the provision for LAN connectivity. Internet connectivity for the computer lab is yet to be done.

College of Veterinary Science, Khanapara

- Three numbers (3) of State of Art Smart Class rooms with internet connection, Smart Digital Board, facilities for Video conferencing.
- An e-Learning portal ([e-Vet-Edu](#)) has been designed and launched via Internet for the benefit of the students of the college.
- Both UG and PG courses are available in the e-portal.

Lakhimpur College of Veterinary Science

- Lakhimpur College of Veterinary Science (LCVSc) has 5 numbers of classrooms and 48 numbers of Functional Laboratories. The College has a Teaching Veterinary Clinical Complex (TVCC).
- ICT infrastructure facility is available for the Users in college library for accessing E-resources
- Both UG and PG courses are available in the e-portal.

College of Fisheries, Raha

- The college is having a *modern Smart class* room with 30 students seating capacity, a conference cum seminar hall, 1 PG classroom with all ICT facilities. Existing ICT facilities of College is sufficient to meet the expectation of Academic, research and extension activities of the institute.
- The computer unit of the college library is furnished with 12 Nos of computers.

College of Community Science

Department	Class room	Laboratory	Seminar room	Training Hall	Computer Lab	Library
ECM	3	3	1	1	1	-
FRMCS	2	5	1		1	1
FSN	1	12	1	-	-	1
HDFS	2	5	1	-	-	1
TAD	-	6	1	-	1	-

Teachers training for personalize learning created and capacity building

Teachers training facilities:

- Auditoriums: The university auditorium is well equipped with modern facilities and has the capacity to accommodate nearly 800 trainees.
- Board Room/ Conference Rooms: Multiple purpose medium-size training roomshave been created across the faculties of AAU.In case of accommodation of larger training group, two or three conference rooms are combined to conduct the training program.
- Seminar Rooms: It is used to accommodate a small number of faculty within close proximity.

Capacity building:

- Orientation Workshops on Teaching Technology are being organized for newly recruited Assistant professor at regular interval.
- Ten faculty members were trained under AdaptNET project funded by European Union to attend training on Climate Resilient Agriculture.
- The university has been facilitating middle and senior level teachers to undergo trainings on Teaching capacity enhancement being organized by NAARM, Hyderabad
- In house regular training of faculties on teaching methodologies.
- Faculties are regularly sent for undergoing short courses in Centre of Excellences in various Universities.
- Teachers across faculties have been trained for developing e-learning modules on various courses.

Monitoring and evaluation frameworks to maintain and sustain these facilities

- The ARIS Cell has been maintaining and updating the internet connectivity, university website along with regular updates and backups
- The maintenance celloperating under Senior Estate Officer has been looking after the day to day maintenance of the facilities created in Jorhat campus.
- A separate directorate under Director of Physical Plant has been given the responsibility to look after the civil and other works like construction and maintenance of roads, buildings and the essential services in all the Campuses under Assam agricultural University.

6.6.2.7 Integrated Learning Systems (Experiential Learning)

How many these units have been sanctioned by the ICAR? Mention the functional condition of each unit. Provide data regarding year wise profit sharing with the students from each unit.

Faculty of Agriculture

Under Faculty of Agriculture, ELP is offered in seven different packages viz., Crop Protection, Post Harvest Technology & Value Addition, Agri- Business Management, Commercial Horticulture, Commercial Agriculture, Social Science and Tea Production and Processing Technology. Altogether, 8 ELP modules are operational under Dean, Faculty of agriculture in two locations, of which, 5 are ICAR funded and the rest are funded by AAU.

The number of experimental units sanctioned by ICAR, functional status of each of the unit and year wise profit sharing with students are presented in following tables :

SL. No.	Module and Title	Funded by	Functional Status	Location college name , place)
1.	ELP-420- I :- Production of ornamental medicinal and aromatic plants.	ICAR	Functional	College of Agriculture,AAU,Jorhat
2.	ELP-420- II :- Production of bio fertilizer, bio pesticides and bio Agents.	ICAR	Functional	College of Agriculture,AAU,Jorhat
3.	ELP-420-III :- Post harvest technology and value addition	ICAR	Functional	College of Agriculture,AAU,Jorhat
4.	ELP-420- IV :- Mushroom Cultivation	AAU Funded	Functional	College of Agriculture,AAU,Jorhat
5	ELP-420-V :- Tea Production and Marketing	ICAR	Functional	College of Agriculture,AAU,Jorhat
6	ELP-420-VI :- Poultry Production Technology.	AAU Funded	Functional	College of Agriculture,AAU,Jorhat
7	ELP-420-VII : Commercial Horticulture	ICAR	Functional	B.N. College of Agriculture, Biswanath chariali
8	ELP-420-II : Production of bio fertilizer, bio Pesticides and bio agents.	AAU Funded	Functional	B.N. College of Agriculture, Biswanath chariali

Year wise profit sharing with the students from ELP unit

Year	Name of the EL Modules	Support from ICAR/ University/ State	Grant Received	No. of Student trained under EL	Revenue earned	Revolving fund Generate	% share of Income distributed to students
2017-18	Production of ornamental medicinal and aromatic plants.	ICAR	Nil	50	Rs.26,512.00	Rs.81,645.00	50%
	Production of bio fertilizer, bio pesticides and bio Agents.	ICAR	Nil	50	Rs.38,520.00	Rs.83,871.00	50%
	Post harvest technology and value addition	ICAR	Nil	50	Rs.16,283.00	Rs.96,290.00	50%
	Tea Production and Marketing	ICAR			Rs.1,03,550.00	Rs.1,70,503.00	50%
	Mushroom Cultivation	AAU,Jorhat			Rs.31,110.00	Rs.56,663.00	50%
	Poultry Production Technology.	AAU,Jorhat			Rs.53,105.00	Rs.66,182.00	50%
2018-19	Production of ornamental medicinal and aromatic plants.	ICAR	Nil	50	85,460.00	1,27,890.00	50%
	Production of bio fertilizer, bio pesticides and bio Agents.	ICAR	Nil	50	54,855.00	1,35,397.00	50%
	Post harvest technology and value addition	ICAR	Nil	50	25,102.00	1,08,009.00	50%
	Tea Production and Marketing	ICAR			1,10,000.00	3,09,305.00	50%
	Mushroom Cultivation	AAU,Jorhat			50,775.00	93,088.00	50%
	Poultry Production Technology.	AAU,Jorhat			64,213.00	1,02,650.00	50%
2019-20	Production of ornamental medicinal and aromatic plants.	ICAR	Nil	50	55,900.00	1,33,619.00	50%
	Production of bio fertilizer, bio pesticides and bio Agents.	ICAR	Nil	50	8000.00	1,20,748.00	50%
	Post harvest technology and value addition	ICAR	Nil	50	34,870.00	1,15,171.00	50%
	Tea Production and Marketing	ICAR			91,320.00	3,54,965.00	50%
	Mushroom Cultivation	AAU,Jorhat			41,104.00	1,00,3123.00	50%

	Poultry Production Technology.	AAU,Jorhat			40,000.00	1,22,650.00	50%
2020-21	Production of ornamental medicinal and aromatic plants.	ICAR	Nil	50			
	Production of bio fertilizer, bio pesticides and bio Agents.	ICAR	Nil	50			
	Post harvest technology and value addition	ICAR	Nil	50			
	Tea Production and Marketing	ICAR					
	Mushroom Cultivation	AAU,Jorhat					
	Poultry Production Technology.	AAU,Jorhat					

Faculty of Veterinary Science

Under veterinary faculty, 2 ELP modules are operational with the financial support from ICAR. Numbers of experimental units sanctioned by ICAR, functional status of each of the unit and year wise profit sharing with students are presented in following tables.

Title of the ELP Unit	Location	Sponsor	Cost	Functional condition
Pig Production for profitable Enterprise	CVSc, Khanapara	ICAR	Rs. 60.00 Lakhs	Functional
Hatchery management and commercial broiler production	CVSc, Khanapara	ICAR	Rs. 50.00 Lakhs	Functional

Data on year wise profit sharing with each student from each unit.

EL Title	Year	No. of Student Trained	Total Income Generated (in Rs)	Total Profit Earned (in Rs.)	Profit Shared with Student	Major Skill Imparted)
Hatchery management and commercial broiler production	2013-14	22	98910	17440	50%	• Management and operation of chick hatchery
	2014-15	23	175656	18318	50%	
	2015-16	16	70118	10338	50%	
	2016-17	15	110425	19481	75%	• Vaccination and medication to chicks
	2017-18	19	175670	23410	75%	
	2018-19	18	145761	16816	75%	• Brooding and sexing of chicks • Management and marketing of commercial broiler chicken
	2019-20	12	127808	12515	75%	

Faculty of Community Science

Under Faculty of Community Science, AAU, Jorhat, altogether 10 ELP modules are operational under 5 different departments.

Department	Module
ECM	1. Digital Advertising, ECM 4110(a) 10 (0+10) 2. Web Designing and Multi Media Production, ECM 4110(b) 10 (0+10)
FRMCS	1. Product Development and Value Addition, FRMCS 4110(a) 10 (0+10) 2. Interior and exterior Project Development FRMCS 4110(a) 10 (0+10)
FSN	1. Food service and hospitality management, FSN4110(a) 10 (0+10) 2. Production of nutraceutical and health foods, FSN4110(b) 10 (0+10)
HDFS	1. Child Care and Management, HDFS 4110(a) 10 (0+10) 2. Assessment and Counselling, HDFS 4110(b) 10 (0+10)
TAD	1. Garment Detailing and Production , TAD- 4110(a) 2. Product Development through Surface Enrichment, TAD 4110(b)

Number of experimental units sanctioned by ICAR, functional status of each of the unit and year wise profit sharing with students is presented in following tables.

Title of the EL Unit	Year of Establishment	Location of the EL Unit	ICAR sponsored/State Sponsored	Total Cost of the EL unit Establishment	Total Profit earned/year	Name, designation and contact address of Unit I/C	Total no of students Trained so far
• ELP on production bakery and confectionery food production • ELP on production of processed foods • ELP on Food service and hospitality management • Production of Nutraceuticals and Health Foods	The bakery and confectionery unit was established in 2007-08. The ELP programme was started from 2012-13.	Department of Food Science and Nutrition	ICAR	25 lakhs	From 2012-13 till 2019-20 Rs. 271893/-	Dr. Pranati Das, HoD, Department of Food Science and Nutrition	From 2012-13 till 2019-20 total 58 nos.

Data on year wise profit sharing with the students from each unit

Year	Department	No. of Student	Profit in Rs.	Dept.Share (40 %) in Rs.	Student Share(60%) in Rs.	Remarks
2015-2016	ECM	7	1500.00	600.00	900.00	
2016-2017		6	29,365.00	11746.00	17619.00	
2017-2018		6	20000.00	8000.00	12000.00	
2018-2019		9	15,500.00	6200.00	9300.00	
2019-2020		6	14144.00	5658.00	8485.00	
2020-2021		9				
2015-2016	FRMCS	6	5647.00	2258.80	3388.20	
2016-2017		5	10385.00	4154.00	6231.00	
2017-2018		6	10000.00	4000.00	6000.00	
2018-2019		9	20909.00	8363.00	12545.00	
2019-2020		7	17029.00	6812.00	10217.00	
2020-2021		9				
2015-2016	FSN	7	31,130.00	12,452.00	18,678.00	
2016-2017		6	29,940.00	11,976.00	17,964.00	
2017-2018		6	44,170.00	17,668.00	26,502.00	
2018-2019		9	46,830.00	18732.00	28,098.00	
2019-2020		8	54,530.00	21,812.00	32,718.00	
2020-2021		8				
2015-2016	HDFS	7	-	-	-	No Profit
2016-2017		4	9,451.00	3,780.40	5,670.60	
2017-2018		4	18,488.00	7,395.20	11,092.80	
2018-2019		9	18,565.00	7,426.00	11,139.00	
2019-2020		7	12,400.00	4,960.00	7,440.00	
2020-2021		8				
2015-2016	TAD	6	8,265.00	3,306.00	4,959.00	
2016-2017		5	6,750.00	2,696.00	4,050.00	
2017-2018		6	10,300.00	4,124.02	6,175.98.00	
2018-2019		9	21,515.00	8,606.03	12,908.97	
2019-2020		7	25,750.00	10,300.02	15,449.98	
2020-2021		7				

Faculty of Fisheries

Under Faculty of Fisheries, one ELP module is operational with the financial support from ICAR . Number of experimental units sanctioned by ICAR, functional status of each of the unit and year wise profit sharing with students are presented in following tables.

Title of the EL Unit	Year of Establishment	Location of the EL Unit	ICAR sponsored/State Sponsored	Functional Condition
“Post Harvest Technology (Production of value added fish products)”	2017 - 18	Department of “Fish procesing technology”	ICAR	Functional

Data on year wise profit sharing with student

EL Title	Year	No. of Student Trained	Annual turn over (Rs)	Profit Earned (Rs.)	Profit Shared with Student	Value added products developed
“Post Harvest Technology (Production of value added fish products)”	2018-19	7	6,00,000.00	1,00,000.00	80%	• Fish Pickle • Minced Fish Products
	2019-20	7	6,00,000.00	1,00,000.00	80%	

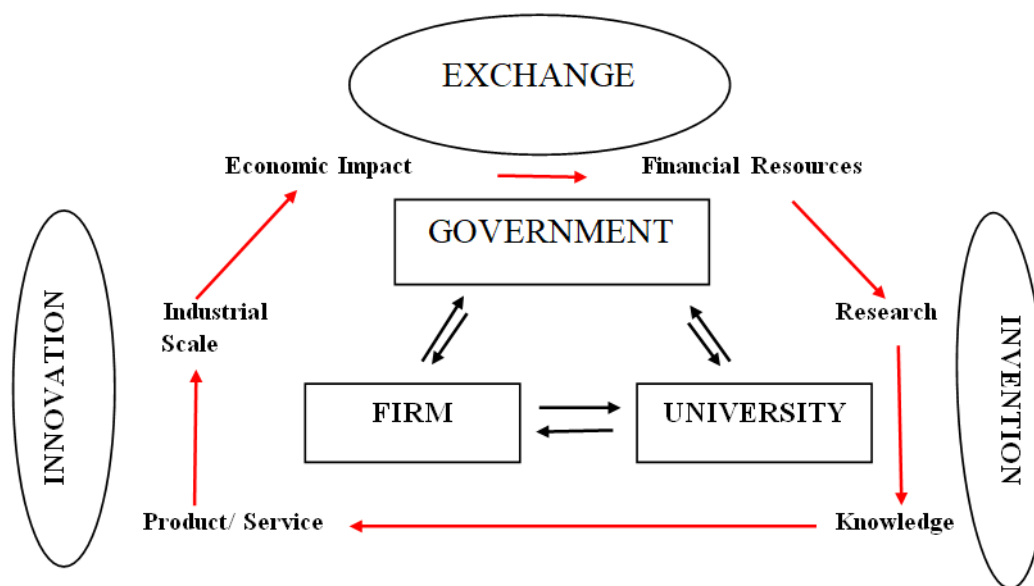
6.6.2.8 Academic Industry Interface

Mention the important channels for knowledge transfer between University and firms. How the university has been benefited in last five years in terms of resource mobilization, research funding, knowledge transfer and others.

In order to transfer knowledge to firm sector, the different channels adopted by the university are:

- i. Periodic interface meeting between university and firms.
- ii. Direct collaboration and interaction with industries like Oil India Limited (Numaligarh and Duliajan) and Tea particularly through Small Tea Growers Association (STGA), Tea Board etc.
- iii. Interaction with different firms recommended by State Government from time to time.
- iv. Other small and marginal Industrial houses

Pictorial of important channels between university and firms is depicted below:



The technologies developed in the University after thorough validations at different stages are transmitted in the form of knowledge and output/ product to firm sectors for commercialization. Out of the following 56 AAU-developed technologies, a few have been commercialized, while rests are in the verge of commercialization with some of the firms of regional and national reputes.

Sl. No.	Particulars of the technology/ process	Type of product/Process /Technology
1.	Improved Starter Culture for Rice Beer (Xaaj) Fermentation	Starter culture for rice beer preparation
2.	Fruit Flavoured Rice Beer	Rice-based alcoholic beverage
3.	High fibre functional fruit based beverage	Fruit based beverage
4.	Fruit wines	Alcoholic beverage
5.	Fruits and vegetable based probiotic beverages	Fruit based beverage
6.	Xaaj	Rice-based alcoholic beverage
7.	Poro	Rice-based alcoholic beverage
8.	Organic acetic acid from biowaste	Organic Acetic Acid
9.	Improved rice-based composite pasta	Food product
10.	Citrus peel candy	Food product
11.	Jackfruit chips	Food product
12.	Jackfruit papad	Food product
13.	Jackfruit squash	Food product
14.	Multigrain roti mix for diabetics I & II (2 Nos.)	Low glycemic Food Mix
15.	Malted weaning food	Food Mix
16.	Low glycemic food multi mix with malted rice bean (FMM)	Low glycemic Food Mix
17.	Carrot blended probiotic yoghurt	Food Mix
18.	Mango blended probiotic yoghurt	Food Mix
19.	Raw sorghum based composite flour mix (SBCFM I)	Low glycemic Food Mix
20.	<i>B. bassiana</i>	Talc based biopesticide formulation (WP)
21.	Bio-veer	Biopesticide formulation
22.	Bio-zium	Biopesticide formulation
23.	Bio-meta	Biopesticide formulation
24.	Bio-sona	Biopesticide formulation
25.	Bio-llium	Biopesticide formulation
26.	Biofor-Pf 2	Biopesticide formulation
27.	Biozin-PTB	Biopesticide formulation
28.	Bio-Time	Biopesticide formulation
29.	Biogreen-5	Biopesticide formulation
30.	Biogreen L (Liquid)	Biopesticide formulation
31.	Phosphate Solubilizing Bacteria (PSB)	Biofertilizer strain
32.	Azospirillum	Biofertilizer strain
33.	Azotobacter	Biofertilizer strain
34.	Rhizobium	Biofertilizer strain
35.	Zinc SoilubilizingBacteria (ZSB)	Native biofertilizer strain
36.	Potash SoilubilizingBacteria (PSB)	Native biofertilizer strain
37.	Org-Trichoja (soil borne pathogen management and plant growth enhancer)	Biopesticide formulation
38.	Org-Vertijal (Red spider mite management)	Biopesticide formulation

39.	Org-Metajal (Termite and aphid management)	Biopesticide formulation
40.	Org-Beauverijal (<i>Helopeltis</i> and Hispa management)	Biopesticide formulation
41.	Org-Cilliumjal (Root knot nematode management)	Biopesticide formulation
42.	Org-Pochojal (Root knot nematode management)	Biopesticide formulation
43.	Org-Metahim (Termite, aphid and scale management)	Biopesticide formulation
44.	Surakshit	Fungal culture preservation kit
45.	Low cost egg incubator	Egg incubation machine
46.	Gas fired oven for bamboo stalk cooked rice or <i>Chunga chaol</i>	Gas fired oven
47.	Power operated bamboo shoot grating machine	Bamboo shoot grating machine
48.	AAU 'pitha' stand	<i>Pitha</i> making sand
49.	Ecofriendly holi powder	Ecofriendly holi powder and food color
50.	<i>Andurchitap</i>	Rodent catching trap
51.	Improved tea plucking basket	Drudgery reducing products
52.	Improved spreading tool for post harvest activities of grain	Drudgery reducing products
53.	Ginger peeling knife	Drudgery reducing products
54.	Natural dye (five numbers)	Natural dye for clothing yarn
55.	Green composite board from agro waste	Green composite board
56.	Carotenoid rich poultry feed	Improved poultry feed

A few examples of technologies already transferred are:

1. Assam Mix

Commercialization of Assam Mix

The technology of Assam Mix was transferred to Aasray Concept Food, a Guwahati based food industry, by signing Memorandum of understanding between Assam Agricultural University, Jorhat and Aasray Concept Foods, Guwahati. The product is mainly procured by Government of Assam, Bihar and Jharkhand for food supplementation through ICDS. Total turn-over from this technology till recently is Rs 2.25 Crores. The technology is available through many outlets in Assam

2. Products from Minor Fruits of Assam

Technology developed from processing of the selected minor fruits of Assam under the project "Development of Value Added Products from Minor Fruits of Assam" had been successfully transferred to 3(three) entrepreneurs of Assam having expertise in food processing by signing MoU between AAU and the Entrepreneurs during the technology transfer ceremony held on 23rd August, 2016 to namely "Barhamthuri" Rajamaidam,

Jorhat-1, “Smriti’s Griha Udyog”, Hem Baruah Path, Jorhat and “Madhur Food Products”, Sonitpur, Assam .

The technologies transfer were:

1. Outenga Chutney Mix	5. KujiThekera Spicy Drink
2. Outenga Spicy Drink	6. Paramlaxhi Mouth Freshner
3. BorThekera Candy	7. RupohiThekera Pickle
4. NogaTenga Leather	8. NogaTenga Pickle

3. Products from Locally available Fruits and Vegetables

Under USAID funded project on “Product Development from locally available fruits and vegetables”, four novel value added products developed were commercialized through firm namely “Phi-enerprise” Guwahati.

The technologies transferred were :

1. Papaya candy	2. Ginger candy
3. Ginger-pineapply candy and	4. Ginger lemon RTS

Besides above, the following two technologies have been commercialized

Commercialization of “*Sai Apong*”

- MoU signed between AAU and Assam Heritage Brewary, Jorhat on March 06, 2019

Commercialization “*Xaj Pani*”

- MoU signed between AAU and Sri Deep Jyoti Duwari, Dimow, Sibsagar on March 05, 2021

6.6.2.9 National Ranking (ICAR/MHRD)

Mention about the rank of the University in last five years in the NIRF from ICAR/MHRD.

Assam Agricultural University a premier institution for higher agricultural education of the country has been following the directives of Indian Council of Agricultural Research (ICAR), New Delhi. The basic aim of the Council is to aid, impart and coordinate agricultural education, research and extension to develop quality human resource, to develop and disseminate technology. Unlike general universities/colleges, accreditation of State Agricultural Universities (SAUs) is done by National Agricultural Education Accreditation Board (NAEAB) every five years. The Council on the advice of NAEAB evolves norms and standards for accreditation of institutions and programmes of agricultural education and accordingly the ICAR-Accreditation Board upon recommendation of ICAR-Peer Review Team granted accreditation to SAUs and accordingly the Assam Agricultural University has been accredited consecutively for the 2nd term up to 2021 vide Council's notification F.No.Edn.3/2/98-EQR dated 18th November, 2016.

As the Indian Council of Agricultural Research (ICAR) has its own ranking provision for SAUs, Deemed Universities, Central Agricultural Universities (CAUs) and Central Universities with Agriculture Faculties, therefore AAU has not applied for NIRF ranking. Under ICAR ranking system, the Assam Agricultural University has achieved 16th rank in 2016-2017, 36th rank in 2017-2018, 32nd rank in 2018-2019 and 49th rank in the year 2019-20.

6.6.3. Research Support

A. Directorate of Research(Agri)

6.6.3.1. Research Council : Mention the present composition of the research council and provide the dates of meetings in last five year in tabular form.

The University has been following a well defined research management system to conduct need based, situation specific, demand driven, relevant research. Under the system, the research problems are being identified based on the feedback received from the line departments, particularly, the departments of agriculture, veterinary and fishery and the research and extension network of the university, mainly, the KVK system. The scientists are also engaged and encouraged to identify research needs in their respective area of specialization through direct contact with the farming community established in the process of executing different research and development programmes. The scientists also use different participatory rural appraisal tools to understand farmers' research needs and gather feedback on the technology being promoted for their necessary revision, refinement and improvement. The University has put in place an in-built mechanism *via* provision of several committees with well-defined power and responsibilities to make sure that the researchable needs are correctly identified, research programmes are sharply focused on the relevant problems and executed with right spirit, research activities are constantly monitored and progress is thoroughly evaluated and the faculty members are made duly accountable. The committees are as follows:

1. Research Advisory Committee (RAC):

Constituted of the Vice chancellor, Deans and Directors of the University, Directors of the line departments and two members co-opted by the Vice-Chancellor to secure adequate representation of different fields of agriculture with the Vice Chancellor as Chairman and Director of Research (Agri) acting as Member Secretary. This Committee is the highest authority for identification and prioritization of the research problems to be addressed by the university. The committee considers the research problems identified by the ZREAC/REAC and/or forwarded by any other agencies or individuals and finalizes the researchable problems for the university. The Committee is also responsible to advice the Vice-Chancellor regarding allocation of funds for research, the conditions for accepting grants and any other matters relating to the research programs of the university. The meeting of the RAC is held once in a year.

2. Research Management Committees (RMC):

In the system, there is provision of two research management committees (RMC), one for agriculture and home science and the other for veterinary science and fisheries science. The RMCs are constituted of the Deans of the concerned faculties, Directors, Associate Director/Deputy Director, Chief Scientists/Station In-charge of the Research Stations belonging to the concerned directorate of research and Heads of the Departments of concerned faculties and the Directors of Extension Education and Post Graduate Studies with the concerned Directors of

Research as Chairman and Associate Director/Deputy Director of Research acting as Member Secretary. The two Research Management Committees are responsible to the Vice-Chancellor with their primary job is to advise the respective Directors of Research in coordinating and administering the research programs of the university. The committee defines the research projects and their broad objectives for conducting research on the problems identified by the RAC. The committee assigns specific research projects to different research stations and departments and also identifies the scientist(s) or the team of scientists from different research stations and departments to work on the specific projects. The committee is also responsible for confirming the technical programs and for monitoring of the research programs. The RMC meetings are held twice in a year.

3. Zonal Research and Extension Advisory Committee (ZREAC) for Agriculture & HSc

For every agroclimatic zone, there is a Zonal Research and Extension Advisory Committee (ZREAC) for agriculture. This committee is primarily responsible for identification and prioritization of the research problems of the respective zones based on the feedback received from the line departments and the research/extension system of the university, particularly, the KVKs. The committee is also supposed to make efforts to categorize the research goals as short and long term ones and extend suggestions for refinement of technology based on feedback. The committee also considers the proposals for recommendation of technology for the respective zone and forwards such proposal to the Technical Committee with its opinion/observation. The ZREAC is constituted of the Chief Scientists/Station In-charge of the research stations in the zone and the Programme Coordinators of the KVKs in the zone, Director and Associate Director of Research and/or DR's nominated scientists, Director and Associate Director of Extension Education and/or DEE's nominated scientists, HoDs of the Departments of the College of Agriculture in case of UBVZ, Joint Directors, Deputy Directors, District Agriculture Officers (DAO), Sub-divisional Agriculture Officers (SDAO), Department of Agriculture from the concerned zone, 5-10 farmers invited by the Chief Scientist of the RARS of the respective zone with the Chief Scientist of the Regional Agricultural Research Station (RARS) of the respective zone acting as the Chairperson. As the state is divided in 6 agroclimatic zones there are 6 ZREACs with one for each of the zones. The ZREAC meeting is held twice in a year.

4. Technical Committee (TC)

For each of the four faculties there is one Technical Committee (TC) with the Concerned Dean/OSD of the respective Faculty acting as the Chairperson. The TC is constituted with the concerned Heads of the Departments, concerned Chief Scientists/Station In-charge of the Research Stations, the scientists of the concerned faculties nominated by the Heads of the Departments and the Chief Scientists/Station In-charge of different research stations. This committee is primarily responsible to examine the technical details of the projects submitted by the scientists, review all the on-going research programs and suggests mid-term correction in the technical programs if required and discuss the salient research findings and make judgment on

the suitability of the technology for recommendation to the farmers. The meeting of the Technical Committee is held twice in a year.

B. Directorate of Research (Vety.), AAU, Khanapara

6.6.3.1. Research Council : Present composition of the research council and provide the dates of meeting in last five year in tabular form.

The reserach managment system is as per Act & Staues of Assam Agricultural University. A breif outline is furnished for ready reference.

Research Advisory Committee (RAC)

Constitution

The Vice-Chancellor, AAU, Jorhat (Chairperson)

Director of Research (Agri.), AAU, Jorhat (Member Secretary)

Director of Research (Vety.), AAU, Khanapara

Deans, Faculty of Agriculture/Home Science/ Veterinary, AAU, Jorhat/Khanapara

Director, Extension Education, AAU, Jorhat

Director, Post Graduate Studies, AAU, Jorhat

OSD, College of Fisheries Science, AAU, Roha

Director, Department of Agriculture/Veterinary/ Fishery, Govt. of Assam, Guwahati

Members to be co-opted by the Vice-Chancellor to secure adequate representation of different fields of agriculture

Power and responsibilities

- This Committee is the highest authority for identification and prioritization of the research problems to be addressed by the university. The committee considers the research problems identified by the ZREAC/REAC and/or forwarded by any other agencies or individuals and finalizes the researchable problems for the university.
- The Committee is also responsible to advice the Vice-Chancellor regarding allocation of funds for research, the conditions for accepting grants and any other matters relating to the research programs of the university.

Meetings

The meeting of the RAC is held at least once in a year.

Research Management Committee for Vety. & Fisheries (RMC-VF)

Member of the Committee

Director of Research (Vety), AAU, Khanapara (Chairperson)

Dean, Faculty of Veterinary Science, AAU, Khanapara

Associate Director, Extension Education, AAU, Khanapara

Director, Post Graduate Studies, AAU, Jorhat

Associate Director of Research, AAU, Khanapara (Member Secretary)

OSD College of Fishery Science, AAU, Roha

Concerned Heads of the Departments of the College of Veterinary Science, Khanapara and College of Fishery Science, Roha

Concerned Chief Scientists/Station In-charge of the Research Stations in Veterinary and Fisheries

Power and responsibilities

- The two Research Management Committees are responsible to the Vice-Chancellor.
- The primary job of these Committees is to advise the respective Directors of Research in coordinating and administering the research programs of the university.
- The committee defines the research projects and their broad objectives for conducting research on the problems identified by the RAC.
- The committee assigns specific research projects to different research stations and departments and also identifies the scientist(s) or the team of scientists from different research stations and departments to work on the specific projects.
- The committee is also responsible for confirming the technical programs and for monitoring of the research programs.

Meetings

The RMC meetings are held as and when necessary.

Research and Extension Advisory Committee for Vety. & Fisheries Sc. (REAC-VF)

Members of the Committee

Director of Research (Vety), AAU, Khanapara (Chairperson)

Dean, Faculty of Veterinary Science, AAU, Khanapara

Director, Post Graduate Studies, AAU, Jorhat

Associate Director of Research, AAU, Khanapara (Member Secretary)

Associate Director, Extension Education, AAU, Khanapara

OSD College of Fishery Science, AAU, Roha

Concerned Heads of the Departments of the College of Vety Science Khanapara/College of Fishery Science, Roha

Concerned Chief Scientists/Stations In-charge of the Research Stations in Veterinary and Fisheries and Scientists nominated by the Chief Scientists/Stations In-Charge

Heads of the Departments of the Faculties of Veterinary and Fisheries Science and teachers nominated by the Heads

Officials from the Departments of Veterinary and Fishery, Govt. of Assam in the rank of Divisional Officers and Joint Directors

5-10 farmers invited by the Director of Research (Vety)

In case of veterinary and fisheries research programs, there is only one Research and Extension Advisory Committee (REAC) for the entire state as the research networks for these two fields of research are confined to one or two districts only.

Power and responsibilities:

- The ZREAC/REAC is responsible for identification and prioritization of the research problems of the respective zones.
- The committee is to make efforts to categorize the research goals as short and long term ones.
- The committee extends suggestions for refinement of technology based on feedback.
- The committee also considers the proposals for recommendation of technology and forwards such proposal to the Technical Committee with its opinion.

The dates of Plenary sessions of Technical committee chaired by the Vice-Chancellor

Plenary Session of the Technical Committee Meeting at AAU since 2015-16

Year	TCM Kharif	Plenary	TCM Rabi	Plenary
2016-17	2-13.05.2016	12.07.2016	18-25.10.2016	-
2017-18	2-12.05.2017	-	16-25.10.2017	28.11.2017
2018-19	23 – 31.05.2018	10.07.2018	16 – 23.10.2018	28.12.2018
2019-20	13-25.05.2019	08.07.2019	26 - 30.09.2019	05.11.2019
2020-21	29 Feb – 29 June, 2020	21.08.2020	09 – 12.11.2020	19.11.2020
2021-22	09 – 24.04. 2021	29.04.2021	-	-

ZREAC meeting in each Agro-climatic zones are conducted invariably 1 – 2 months before the Technical Committee meeting

6.6.3.2.Direcorate of Research: Give Brief information about present establishment of the Directorate of research, staff pattern, research coordination mechanism, research and seed production centers and contribution in academic programmes

A. Director of Research (Agri)

The University has two Directorates of Research, viz., Directorate of Research (Agri) and Directorate of Research (Vety.), with their head quarters at Jorhat and Khanapara, respectively. The Directorate of Research (Agri.) coordinates and administers the research activities in the field of agriculture and home science, while Directorate of Research (Vety) looks after the research works in veterinary and fisheries. All the major crops, live-stocks, fishes and aspects of significance for development of agriculture and rural economy in the state are studied for generation of technologies and information to meet the diverse needs of the farmers and the stakeholders.

Staff pattern

Sl. No.	Name of post	No. of sanc-tioned post	Post in position	Name of the employee	Vacant post
Directorate of Research (Plan & Non Plan)					
1.	Director of Research	1	1	Dr. Ashok Bhattacharyya	Nil
2.	Assoc. Director of Research	1	1	Dr. Mrinal Saikia	Nil
3	Sr. Scientist	5	5	Dr. Kalyan Pathak Dr. Surajit Kalita (Jr.Scientist-2) Dr. Rupam Borgohain Dr. Dhruva.J. Nath Sri Bikash Hazarika (Jr.Scientist)	Nil
3.	Administrative Officer	1	1	Sri Pranab Hazarika	Nil
4.	Assistant Comptroller	1	1	Sri Jadumoni Bora	Nil
5.	Section Officer Estt-1 A/c-1	2	Nil	-	2
6.	Asstt. Section Officer	1	1	Sri Bhuvan Bora	Nil
7.	Superintendent of Accounts	1	Nil	-	1
8.	Sr. Admn. Asstt.	6	Nil	-	6
9.	Jr. Admn. Asstt.	14	6	Mrs. Sulakshana Gogoi Sri Dhurbajyoti Bonia Sri Prana Nath Das Sri Poran Jyoti Saikia Sri Navin Jyoti Saha Mrs. Mala Saikia	8
10.	Sr. Accountant	4	1	Sri. S.P Tarafder	3
11.	Jr. Accountant	8		Sri Utpal Dutta Sri Ajay Hazarika Prateek Hazarika Sri Apurba Borah Sri Anubhav Chakraborty	
12.	Computer	1	Nil	-	1
13	Field Asstt.	9	4	Sri Debojit Gogoi (attached with AICRP on Potato)	5

Sl. No.	Name of post	No. of sanctioned post	Post in position	Name of the employee	Vacant post
				Sri Arabinda Kalita (attached with ICR Farm)	
				Sri Pranjal Bhuyan	
				Sri Bikash Dutta	
15.	Typist	4	Nil	-	4
16.	Mechanic	1	Nil	-	1
17.	Driver	2	1	Sri Dilip Borah	1
18.	Tractor Operator	5	Nil		5
19.	Tractor Helper	1	1	Sri Lilaram Gogoi	
20.	Power Tiller operator	2	1	Sri Kalia Kalita	1
21.	Gestetner operator	1	0		
22.	Peon	9	3	Mrs. Parbati Rajak	6
				Mrs. Sontara Borah	
				Sri Lokeswar Borah	
23.	Bullock Keeper	3	2	Sri Dombarudhar Gogoi	1
				Sri Jogen Dutta	
24.	Sweeper	1	1	Mrs. Durgamoni Basfer	-
25.	Stenographer	1	1	Mrs Renu Bordoloi	-
26.	Editor	1	-	-	1
27.	Technical Asstt.	1	-	-	1
28.	Artist/Draughtsman	1	-	-	1
29.	Computing Asstt.	1	-	-	1
30.	Photographer	1	-	-	1
Fishery Res. Centre					
1.	Principal Scientist	1	1	Dr. Bibha Chetia Borah	Nil
2.	Junior Scientist	1	1	Sri Biswajyoti Bordoloi	Nil
3.	Field Assistant	3	2	Sri Atulmoni Saikia Sri Abhijit Saikia	1
4.	J.A.A	1	1	-	Nil
5.	Boatman	1	1	Sri Chandra Dutta	Nil
6.	Fisherman	2	2	Sri Upen Borah Sri Dimbo Rajkhowa	Nil
7.	Messenger/Chowkider	2	-	-	Nil
8.	Peon	1	-	-	Nil
AICRP on Vegetable					
1.	Scientist (Hort)	1	1	Dr. Sailen Gogoi	-
2.	Jr. Scientist	1	1	Dr.(Mrs.) Reecha T Das	-
3.	Senior Technical Assistant/ Lab Asstt.	1	1	Ms. Munu Devi	-
4.	Fieldman	1	1	Sri Asench Naidu	-
AICRP on Potato					-
1.	Principal Scientist	1	1	Dr. Mitul Saikia	-
2.	Jr. Scientist	1	1	Mahima Bagum	-
3.	Jr. Scientist	1	1	Bhaswati Sarmah	-
4.	Technical Assistant	2	1	Sri Debojit Gogoi (attached from DoR(Agri)	1
5.	LDA/Store keeper	1	-	-	1
6.	Mali/Lab Attdt.	1	1	Sri Rudra Kt. Saikia	-
AICRP on PHT					
1.	Pr.Scientist	1	1	Dr. Abhijit Bora	-
2.	Pr.Scientist	1	1	Dr. Pulin Patgiri	-
3.	Pr.Scientist	1	1	Dheeman Dev Singh	-

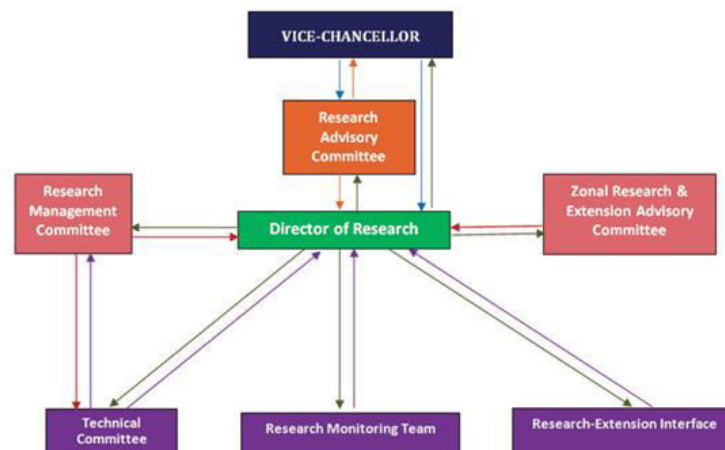
Sl. No.	Name of post	No. of sanctioned post	Post in position	Name of the employee	Vacant post
4.	Asstt.Res.engineer				
5.	Asstt.Food Microbiologist	1	1	Ranjana Deka	-
6.	Sr. Technical Assistant	1	-	-	-
7.	Sr. Mechanic	1	1	Sri Arun Kr. Das	-
8.	Craftman	3	3	Sri Dulal Saikia	-
				Sri Dulal Ch. Borah	
				Sri Siva Kanta Bora(Mate)	
9.	Lab. Assistant	1	1	Sri Ratul Kr. Baruah	-
10.	Typist	1	1	Mrs. Runima Hazarika	-
AICRP on Tuber Crops					
1.	Asstt. Horticulturist	1	1	Dr. Seriful Alam	-
2.	Jr. Horticulturist	2	1	Dr. Sanjib Sarmah	1
3.	Fieldman/Technical Assistant	1	1	Sri Monoj Bharali	-
AICRP on Forage Crops					
1.	Forage Breeder	1	1	Dr. (Ms.) Seuji Bora	-
2.	Agronomy Sr. Scientist	1	-	-	1
3.	Technical Assistant	1	1	Mrs. Anjana Devi (as S.L.A)	-
4.	Field Assistant	2	2	Sri Altab Hussain Bora	-
				Sri Nayanjyoti Baruah	
5.	Technical Assistant	1	Nil	-	1
6.	Lab Attdt.	1	1	Sri Dhujajyoti Rajkhowa	-
AICRP on Water Management					
1.	Chief Scientist	1	1	Dr. Ramani Kt.thakuria	-
2.	Pr.Scientist	1	1	Dr. Bipul Deka	-
3.	Jr.Scientist	1	1	Kabyasree Choudhury	-
4.	Field Asstt.	2	2	Sri Mridul Borah	-
				Sri Mridupaban Goswami	
5.	Jr.Steno(JAA)	1	1	Ms.Trishna Bora	-
6.	Lab. Attdt.	1	1	Sri Tridipta Kalita	-
AICRP on Honey Bees & Pollinators					
1.	Pr. Scientist	1	1	Dr. Ataur Rahman	-
3.	Pr.Scientist	1	1	Dr. Mukul Kr. deka	-
4.	Field Asstt/Apiarist	1	1	Sri Kutubuddin Ahmed	-
AICRP pm MAP & Betelvine					
1.	Sr. Scientist	1	1	Dr.Bijit Kr. Saud	-
2.	Jr. Scientist	1	1	Pranjal Kr. Kaman	-
3.	Typist	1	1	Mrs.Mridusmita Gogoi	-
4.	Field Asstt.	1	1	Sri Gopinath Morang	-
5.	Mali	2	2	Sri Rajen Gogoi	-
				Sri Prafulla Saikia	
AICRP on Weed Management					
1.	Pr.Scientist	1	1	Dr. Khagen Kurmi	-
2.	Pr.Scientist	1	1	Dr.Iswar C.Barua	-
3.	Field Assistant	1	1	Sri Bijit Barua	-
4.	Driver	1	1	Sri PankajBora	-
AICRP on Fruits					
1	Jr.Scientist	1	1	Dr. Inee Gogoi	-
2	Jr.Scientist	1	1	Ms. Popy Bora	-
3	Jr.Scientist	1	1	Mr. Bhabesh Deka	-
4.	Field Asstt.	2	2	Sri Budhin Sarmah	-
				Sri Bedanta Sankar Bora	

Sl. No.	Name of post	No. of sanctioned post	Post in position	Name of the employee	Vacant post
5.	Mali	3	3	Sri Putul Borthakur Sri Ganesh Ch. Kalita Sri Padma Bora	-
6.	Lab. Attdt.	1	1	Sri Utzal Das	-
7	Typist	1	1	Mrs. Trishna Gogoi	-
8	Tech.Asstt. /Field Asstt.	1	-	-	1
9					
AICRP on Nematodes					
1	Asstt.Nematologist	2	2	Dr. Debanand Das(Pr.Scientist)	-
				Nebidita Borgohain(Jr.Scientist)	
AICRP on IFS					
1	Chief Agronomist	1	1	Dr. Karuna Kt. Sarmah	-
2	Jr.Scientist	1	1	Dr. Bhabesh Gogoi	-
3	Jr.Scientist	1	1	Dr. Monisha Borah	-
4.	Jr.Scientist	1	1	Mrs. Jyoti Rekha Hazarika	-
AICRP on Biological Control					
1	Pr. Scientist	1	1	Dr. Dilip Kr. Saikia	-
2	Jr.Scientist	1	1	Mr. Rudra Narayan Borkakati	-
AICRP on Agro-meteorology					
1.	Agro Meteorologist	1	1	Dr. Kuldip Medhi	-
1.	Field Asstt.	1	1	Sri Mintu Gogoi	-
3.	Meteorological Observer	1	1	Sri Bhola Nath Bora	-
AICRP on Home Science					
1	Sr. Scientist	5	5	Dr. Nandita Bhattacharyya Dr. Nabaneeta Gogoi Dr. Jinamoni Saikia Dr. Mamoni Das Dr.Mayuri Bora	-
AICRP on FIM					
1	Sr. Scientist	1	1	Er. Manash Baruah	-
2	Technician/Carpenter Farm Machine fitting & Fabrication	2	2	Sri Arpon Bora Sri Bharat Pathak	-
3	Tractor Driver	1	1	Sri Prodip Gogoi	-
AICRP on NSP(BSP)					
1	Pr.Scientist	1	1	Dr. Prakash Bora	-
2	Tech.Asstt/Lab.Asstt.	2	2	Sri Chandra Kanta Kalita(FA) Sri Binit Das(LA)	-
3	Field Asstt	1	1	Sri Bashab Raj Dutta	-
4.	Driver	1	1	Sri Bhagaban Baruah	-
AICRP on NSP (STR)					
1	Pr.Scientist (Plant Breeding)	1	1	Dr. Sharmila Deka	-
2	Pr.Scientist (Seed Technology)	1		Dr. Umesh kalita	-
3	Pr.Scientist (Seed Pathology)	1		Mrs. Devanushi Dutta	-
4	Pr.Scientist (Seed Entomology)	1		Dr. Mathura M. Goswami	-
5	Tech. Asstt.	2	2	Ripon Kr. Bharali Bikash Ranjan Goswami	-
6	Field Asstt	2	2	Bibhu Charan Pathak	-

Sl. No.	Name of post	No. of sanctioned post	Post in position	Name of the employee	Vacant post
				Debajit Gogoi	
AICRP on Rodent Control					
1	Assoc. Professor	1	1	Dr. Ratul Kr. Baruah	-
2.	Tech.Asstt.	1		-	1
3.	Field Asstt.	1	1	Sri Sourav Jyoti Bhuyan (attached with DoR(Agri.))	-
AINP on White grubs & other Soil Arthropod pest					
1	Sr. Scientist	1	1	Dr. Badal Bhattacharyya	-
2	Jr. Scientist	1	1	Dr. Sudhansu Bhagawati	-
3	Jr.Scientist	1	1	Dr. Kritideepam Sarmah	-
AICRP on Acarology					
1	Pr.Scientist	1	1	Dr. Sahidur Rahman	-
AICRP on Soybean					
1	Pr.Scientist	1	1	Dr. Zafar Ullah	-
2	Jr. Scientist	1	1	Dr. Munmi Borah	-
3.	Field Asstt	2	2	Sri Diganta Hazarika Sri B.R. Bimal Deori	-
GKMS, Dept. of Agronomy					
1	Tech.Officer	1	1	Sri Athar Nishat Islam	-
2	Agromet Observer	1	1	Sri Bhabani Tasa	-

Research Management System

Emphasis on agricultural development in Assam was also put forwarded during pre-independence era through establishment of Upper Shillong Experimental Farm (now in Meghalaya) during 1897, however, real progress in terms of agricultural research in Assam was took place through Rice Experimental Stations at Karimganj and Titabar during 1913 and 1923, respectively. With subsequent establishment of research stations in each of the agro-ecological situations, now on, six Regional Agricultural Research Stations (RARS) viz., Titabor, Karimganj, Diphu, Gossaigaon, Shillongoni and North Lakhimpur were under operation till date to conduct research on important crops, more specifically, jute, pulses, oilseeds etc. along with five Commodity Research Stations (CRS) viz. Buralikson, Tinsukia, Kahikuchi, Byrnihat and Mandira were functioning under AAU. The University follows a well defined Research Management System to carryout need based, demand driven, situation specific and problem oriented research based on information collected by the scientists from the farmers' fields and also on the basis of the feedback received from the line departments of the state government. Under the current management system (Figure below), the research problems are identified based on the information collected by the scientists from the farmers' fields and also on the basis of the feedback received from the line departments of the state government. The system ensures project based funding and effective monitoring of the programs to make them sharply focused to the relevant problems only.



Research Management System of Assam Agricultural University

For conducting need based, situation specific and problem oriented research, the state has been delineated into six agro-climatic zones with one Regional Agricultural Research Station dedicated to conduct and coordinate the research activities for each of the zones. Moreover, for commodities of significant importance for the state, there are six commodity research stations as well. The research programmes are implemented in these regional and commodity research stations as well as in different departments of the constituent colleges. Each of the research stations has fairly good acreage of land and reasonably good laboratory facilities for research and production activities. The research network of the University is as follows-

1. Regional Agricultural Research Stations (RARS)

The University developed one Regional Agricultural Research Station (RARS) in each of the six agro-climatic zones of Assam in 1980, either by restructuring an already existing research station or by building a new wherever no suitable station was found to be converted to an RARS.

- i. **RARS, Titabar:** This station was established in 1923 as a Rice Experimental Station. With the establishment of AAU, the station became a part of the University and was converted in 1980, to the Regional Agricultural Research Station for the Upper Brahmaputra Valley Zone (UBVZ) comprised of Tinsukia, Dibrugarh, Sivasagar, Jorhat, and Golaghat districts. However, developing improved rice varieties and technologies for the entire state remains still the primary mandate of the station as before. The station is located at Titabar town which is about 20 km south of the Jorhat campus of AAU.
- ii. **RARS, Shillongani:** This station was initially established to work on pulse crops, oilseed crops and jute under the State Department of Agriculture. The station was transferred to the University in 1973 and was reorganized in 1980 as the Regional

- Agricultural Research Station for the Central Brahmaputra Valley Zone (CBVZ) which is comprised of Nagaon and Marigaon districts. The station is responsible primarily for conducting research on pulses, oilseeds, jute and allied fibres and wheat. It also conducts research on *boro* rice. The station is located about 5 km west of Nagaon town.
- iii. **RARS, Gossaigaon:** This station was established in 1980 as the Regional Agricultural Research Station for Lower Brahmaputra Valley Zone (LBVZ) comprised of Kamrup, Nalbari, Borpeta, Goalpara, Kokrajhar and Dhubri districts. This is the lead station for the entire Assam in respect of research on crops like buckwheat, niger, linseed *etc.* The station is located about 8 km west of Gossaigaon town.
 - iv. **RARS, North Lakhimpur:** This station was established, in 1980, as the Regional Agricultural Research Station for the North Bank Plains Zone comprised of Lakhimpur, Sonitpur and Darrang districts. It serves the lead function for research on deepwater rice and *diaraland* agriculture for the entire state. The station is located at Garumaria about 15 km south of Lakhimpur proper.
 - v. **RARS, Karimganj:** This is the first Rice Experimental Station of Assam established in 1913. The station was transferred to the University in 1973 and converted to the Regional Agricultural Research Station for the Barak Valley Zone (BVZ) comprised of Cachar, Karimganj and Hailakandi districts in 1980. The station is still mainly devoted to research on rice. The station is located at Akbarpur about 5 km west of Karimganj town.
 - vi. **RARS, Diphu:** The erstwhile research station at Diphu was transferred to the University in 1973. This station was converted in 1980 to a Regional Agricultural Research Station for the Hill Zone (HZ) comprised of Karbi Anglong and North Cachar districts with substantial improvement in the facilities. The station is presently conducting research for the zone primarily on rice, vegetables, maize, tuber crops, and millets. The station is situated at Delaji about 7 km north of Diphu town.

2. Commodity Research Stations

- i. **Horticultural Research Station, Kahikuchi:** This station was established in 1950 primarily to conduct research on coconut and was transferred to the University in 1973. This is now a leading research station for the horticultural crops.
- ii. **Sugarcane Research Station, Buralikson:** Sugarcane Research Station, Buralikson came into existence in the year 1969 for conducting research on sugarcane. This farm was earlier owned by the State Department of Agriculture which was later transferred to the University.
- iii. **Citrus Research Station, Tinsukia:** The Northeast region is an important part of the centre of origin for citrus crops with enormous variability. Considering the importance of the crop, the Citrus Research Station was established at Tinsukia in

- 1976 to conduct research on all aspects on citrus. The station is located at Gelapukhuri about 10 km north of Tinsukia town.
- iv. **Coconut Research Station, Kharua:** The station was transferred to the University in 1973 and has the mandate of conducting research on coconut and major vegetables, fruits and flower plants. The station is located about 20 km west of Guwahati city. However, the station has not been active since last several years due some socio-political reasons.
 - v. **Goat Research Station, Burnihat:** The Goat Research Station was established at Burnihat in 1971 as the first research station for the veterinary research. The station is the AAU centre for the AICRP on goat. The station is located about 10 km away from Khanapara campus of AAU and is situated by the Guwahati- Shillong road in Kamrup district. The primary mandate of the station is to conduct research on improvement and management of goat.
 - vi. **Livestock Research Station, Mandira:** This station was established at Mandira in 1981. The research station is situated in the southern bank of lower Brahmaputra Valley, 90 km west to Guwahati city in Kamrup district. With an area of 869.9 hectares it is devoted to research on various aspects related to the livestock and birds of regional importance. The station is also responsible for extension and A.I. activities in the surrounding areas to motivate the farmers to rear livestock and birds on scientific lines.

Each of the **research station** according to their capability interacted faculty, scholars, students, and industry in contributing towards enhancement of **research** quality, academic excellence in the form of M.Sc. dissertation, PhD thesis on solving the real need based research problem apart from knowledge creation and dissemination.

B. Directorate of Research (Veterinary)

There are two research stations under the Directorate of Research (Vety), AAU, Khanapara. They are Goat Research Station, Burnihat and Livestock Research Station, Mandira. The research works pertaining to thrust areas those have been identified are being carried out in various departments of the College in the form of postgraduate research and teachers' research (Ad hoc and other projects funded by external agencies as well as Non project faculty research (NPFR) funded by the University).

Staff position

Sl No.	Position	No
1.	Director of Research (Vety)	1
2.	DDR	1
3.	Account Officer	1
4.	Senior Administrative Assistant	3
5.	Senior Administrative Assistant (Typist)	1
6.	Junior Accountant	3
7.	Junior Administrative Assistant	1
8.	Driver	1
9.	Muster Role	4

AICRP on FMD

Sl No.	Position	No
1.	Professor	1
2.	Assistant Professor	1
3.	Lab Attendant	1
1.	Driver	1
2.	Grade IV Senior	1

AICRP on PHET

Sl No.	Position	No
1.	Professor	1
2.	Junior Scientist	3
3.	Senior Lab Assistant	1

AICRP on PIG

Sl No.	Position	No
1.	Professor	1
2.	Technical Assistant	1

Goat Research Station, AAU, Burnihat

Sl No.	Position	No
1.	Chief Scientist	1
2.	Junior Scientist	3
3.	Senior Accountant	1
4.	Sectional Assistant	1
5.	Junior Administrative Assistant	1
6.	Grade IV	3
7.	Lab Assistant II	1
8.	Field Assistant III	1

Livestock Research Station, AAU, Mondira

Sl No.	Position	No
1.	Chief Scientist	1
2.	Principal Scientist	1
3.	Junior Scientist	6
4.	Veterinary Field Assistant	1
5.	Junior Accountant	1
6.	Sectional Assistant	1
7.	Milk Recorder	1
8.	Driver	1
9.	Guest House Attendant	1
10.	Animal Attendant	1

Seed Production centers:

- Under AICRP on Pig there is sub project on Mega Seed Production on Piglet, the target is 1500 piglet per annum. The center is achieving the target during the report period.
- Under AICRP on Poultry Breeding, the center is producing poultry seed for Kamrupa, a dual purpose variety developed at Assam Agricultural University, Khanapara
- The Goat Research Station, Assam Agricultural University, Burnihat is maintaining beetal, Assam Hill Goat and Cross bred of Beetal and Assam Hill Goat. The station in collaboration with Department of Animal Reproduction, Gynecology and Obstetrics is producing frozen goat semen. The Frozen semen is sold to Assam Livestock Development Agency, Govt of Assam and also distributed to the farmers from GRS, Deptt of ARGO and TVCC.
- The liquid semen of Pig is being produced in the Department of Animal Reproduction, Gynecology and Obstetrics in collaboration with AICRP on Pig through a externally

funded research project. The same is also distributed to the farmers through different centers in collaboration with State AH & Vety Department.

- There is Hatchery for Poultry in the Livestock Research Station, Mandira with a capacity of 10000 chicks. Seed production center on duck and fish is being established through RKVY Project at Livestock Research Station, Assam Agricultural University, Mandira
- A Poultry Hatchery is also being established under RKVY Project at Assam Agricultural University, Khanapara.
- Fodder seed production is undertaken at Goat Research Station and Livestock Research Station.
- A hatchery for production of fish seed is going on at LRS, Assam Agricultural University, Mandira.

Contribution in Academic Programmes :

The Directorate is having two outstations namely Livestock Research Station and Goat Research Station. We also have state of the art laboratory including a BSL2/3 Lab. Sophisticated instruments are available , which were procured through externally funded research projects. We are also maintaining a Small Laboratory Animal House Facility. All these infrastructure and facilities are being used by the PG student and research scholars.

A. Directorate of Research (Agri)

6.6.3.3 Technology Developed and its Adoption: List of approved technologies developed in last five years along with their adoption and coverage in the jurisdiction of the university

i. Varieties/breed and other technology developed in last 5 years:

YEAR: 2015

1. Greengram: SGC-20
2. Blackgram: SBC-47
3. Sugarcane: CoBln 04174
4. Green gram: JG14 and JG16
5. Flower: Golden Tycoon, Brunello, Navona and Brindisi (for cut flower production)
6. Basal application of recommended fertilizer dose (60 kg N, 30 kg P₂O₅ and 30 kg K₂O/ha) + Foilar application of 1 % urea at flowering and 50 % pod filling stage of toria
7. Sowing of rajmah from 20th to 30th November can escape incidence of leaf crinkle disease
8. Five (5) *Apiscerana* colonies have been recommended for getting effective yield (11.54q/ha) of pigeon pea
9. Baiting with bromadiolone (0.005%) at panicle initiation stage + local bamboo traps (maatchitap) @ 30 traps / ha at milky stage of rice gave the highest reduction (65-77%) in rodent population in sali rice
10. Mechanical seed placement in raised bed having bed width 600-700 mm and bed height 150-220 mm by tractor drawn raised bed planter with either fluted roller type or cell type seed metering is recommended for growing green gram and black gram in Kharif season
11. Assam lemon crop can be profitably fertigated through drip irrigation with 80% of recommended dose of N-P-K using Urea, DAP or MAP and MOP with a benefit to cost ratio of 3.74. Fertigation is to be done through 60 equal splits during 1st week of November to 2nd week of April or till onset of pre monsoon rains whichever is earlier
12. 'Pitha' stand – a device designed for making "pitha" of uniform size and shape with increased efficiency of "pitha" making in terms of time and fuel
13. In, 4.0 cm irrigation at IW/CPE ratio 1.6 (13-15 days interval) with 100 kg N/ha.
14. Bio-fertilizers Azospirillum and Phosphobacterium each of 2g per plant at two months interval along with a regular spray of NPK (20:10:10) @ 0.2% twice a week should be applied for better growth and flower production in Dendrobium Var. Sonia (Orchid)
15. Based on the performance for number of branches, flower number, flower size, yield and garland production with a B:C ratio of 5.78, the treatment July planting is recommended for cultivation of summer marigold cv. Seracole for Assam condition. In addition May planting (B:C ratio 3.64) and August (B:C ratio 4.71) planting is also recommended.
16. For quality spike production of Asiatic Lilium in Assam a fertilizer dose 30:7.5:45 g NPK/sq.m should be applied
17. For okra organic culture, seeds should be treated with biofertilizers (AZB and PSB @ 7.5g each per 100g of seeds and; Rock Phosphate @ 313kg/ha FYM 5t/ha and Vermicompost @ 1t/ha should be applied during final land preparation
18. For local markets, spray chrysanthemum spikes should be packed in PP-100 gauge to increase shelf- life and maximum floret opening in vase.
19. For nearby markets, marigold loose flowers may be packaged in plastic crates or bamboo baskets for better shelf life and lower loss in fresh weight

YEAR: 2016

1. Rice: Ranjit sub-1 and Bahadur sub-1
2. NCJ28-10 (AAUCJ-2, Kkhyati)
3. Enriched compost @ 5t/ha + Bio-fertilizer (Azospirillum, Azotobacter and PSB mix. @ 4.0 kg/ha as seedling root dip) Or Azolla @ 0.5t/ha (Dual culture) + Biofertilizers may be recommended as organic nutrients for rice
4. In aerobic rice, 5 cm irrigation at 75-80% available soil moisture (10-13 days interval) is proposed for recommendation
5. For higher yield of wheat, seed treatment with 20g/kg of seed each of Azotobacter and PSB in addition to

- recommended dose of Inorganic fertilizer is to be done
6. For weed management in lentil, apply Pendimethalin 1.0 kg/ha as pre-emg. followed by hand weeding at 40 DAS
 7. Under rice utera condition, 45 kg/ha seed rate should be used for lentil variety HUL 57 and KLS 218
 8. Application of Sulphur @ 20 kg ha⁻¹ is recommended along with Recommended dose of N: P₂O₅:K₂O for Black gram cv KU 301
 9. Sowing of field pea can be delayed upto November 20
 10. INM for Jute: - Application of NPK @15:13:25 (kg/ha) + Biofertilizer (Azospirillum Azotobacter + PSB, 3.0 kg/ha each) recommended as INM for Jute
 11. Planting setts in furrows and subsequently mulching the ridges with 50 micron plastic film and mulching the furrows with trash may be recommended for sugarcane
 12. Tebuconazole @ 0.1% for 3 times at 10 days interval just after appearance of symptom can effectively reduce the web blight disease up to 98.99 per cent with BC ratio 2.96 in blackgram
 13. Apiscerana (31.52%) was dominant pollinator on sesamum and five colonies of Apiscerana are recommended for effective pollination of sesamum
 14. To manage rust disease in lentil, spraying of Tebuconazole 25 EC@0.1% three times at 10-15 days interval just appearance of the disease
 15. GK-TC-4 for its short duration (52.22 days to spike emergence) and high yielding nature(4.73 lakh spike/ha) ; Phule Rajani for its dwarfness and tolerant to sclerotial wilt- (3.03%) and Hybrid Arka Nirantara for its high standard bulbs (19.51 per clump) (all single type)
 16. Spraying of RDF (NPK 19 all) twice a week(1 g / lit) + Zn 750 ppm at 1 month interval to Rhynchosyris retusa raised in bamboo basket as the growing support is recommended for earliness in flowering, maximum spike length, spike number, self and vase life with the highest B :C ratio of 4.15
 17. Spraying of RDF (NPK 19 all) twice a week (1 g / lit) + Mg 750 ppm at 1 month interval to Dendrobium var. Sonia is recommended for maximum spike length, spike number, number of florets per spike, self and vase life with the highest B :C ratio of 3.80
 18. Oxadiargyl 90 g/ha as pre-emergence may be applied followed by garden hoeing at 30, 50, 80 days after plating for effective weed controls and better fruit yield in brinjal
 19. Metribuzin @ 500 g/ha as pre-emergence may be applied followed by garden hoeing at 30, 60 and 80 days after planting for effective weed controls and better fruit yield in chilli.
 20. For weed management in marigold, Oxadiargyl 90 g/ha followed by garden hoeing at 30 DAP closely followed by hand weeding at 20 and 40 DAP
 21. Spraying of Manganese Sulphate @ 0.8% thrice in a crop cycle, at 45 ,60 and 75 days after planting promote overall crop growth, flower quality and yield in field grown gerberas
 22. A pot mixture containing of coco peat, sand, FYM and vermicompost at the ratio of 2:1:1:0.5 may be recommended for better growth and management of foliage house plants like Aglaonema (chinese green), Dracaena and Rhipis palm (Fan or fish tail palm).
 23. Enriched Compost (5kg) gave highest yield (8.96 kg/pl) followed by vermicompost (5kg)-8.61 kg/pl. Both the treatments were at par with RDF (9.41 kg/plant). More microbial population is encountered in vermicompost (5kg). Based on the three year results, the scientist suggested that FYM @ 5 kg/plant may be recommended considering the highest B:C ratio of 5.51
 24. Furrow application of chlorpyrifos 20 EC @ 0.06% (or chlorpyrifos 300 g a.i./ ha) against red ants (*Dorylusorientalis*) in potato
 25. Bio rational management of citrus butterfly in nursery/young orchards and citrus psylla: *Beauveria bassiana* @4X10⁶cfu/ml 0.1% (1 g/l) gave effective results against citrus butterfly and Novaluron 10EC (0.005%) was significantly superior in reduction of Psylla population.
 26. Crown baiting with bromadiolone (0.005%) at monthly intervals + trunk banding with aluminium sheet (0.5 mm thickness and 4 feet wide) at the height of 8 feet around the coconut tree recorded the highest control success in reduction of both rodent infestation (66.11%) as well as the nut damage (52.67%)
 27. IPM package against litchi mite, *Aceria litchii* has been developed and recommended as follows:
 - Light pruning i.e. destruction of highly infested leaves/ twigs of litchi plant before two months of flowering.
 - Two sprayings of propargite 57 EC @ 1 ml/ litre of water at 10 days intervals starting from one month after light pruning before flowering.
 28. Minimally processed RTC (Ready to Cook) tender jackfruit can be packed in poly ethylene bags in equal sizes with ginger-garlic-paste and mixed masala in small packets after treating with 1% KMS solution for 10 minutes

which can be stored for 4 to 5 days under refrigerated condition

29. Jackfruit chips can be packed in Metalexaluminium foil pouch intact with crispiness and texture even after 6 months of storage
30. Minimally processed RTC (Ready to Cook) tender jackfruit can be packed in poly ethylene bags in equal sizes with ginger-garlic-paste and mixed masala in small packets after treating with 1% KMS solution for 10 minutes which can be stored for 4 to 5 days under refrigerated condition
31. Bamboo internode of 35 cm length and 2.66 ± 0.3 cm girth being recommended for rearing of *Xylocopa fenestrata*
32. *Apis cerana* (46.66%) was dominant pollinator on mango
33. *Apis cerana* (51.65%) was dominant pollinator on coriander

YEAR: 2017

1. Drought tolerant rice varieties Inlongkiri, Maizubiron, Dehangi and Rongkhang
2. Chilli: Bireek-1, Bireek-2
3. Greater yam: IGDa-2
4. Flower: First Red, Konfetti, Grand Gala and Mascara (as greenhouse varieties)
5. Chandler and Festival (Duration 65 days) are recommended for cultivation in Hill Zone in Strawberry
6. Spraying of 0.4ppm boron at the time of anthesis reduce spikelet sterility in sali rice
7. In rice-toria sequence, application of 1.5Kg B/ha plus 5 Kg Zn/ha along with recommended dose of NPK recorded the highest crop yield and B:C ratio
8. Zn Solubilizing Bacteria on Zn Nutrition: ZSB @ 3.5kg/ha as seedling root dip treatment, is recommended for Zn deficient crops with RDF
9. Application of 20 kg sulphur per hectare along with recommended NPK in kharif black gram
10. Additional to the RDF, Zn-sulphate @ 15 Kg/ha should be applied as basal
11. Application of S@15 kg/ha +25%RD NPK+biofertilizer+2t FYM/ha in toria and in summer blackgram, 25%RDPNK+biofertilizer+2t FYM/ha
12. Fertilizer Prescription Equation for Normal and Late sown Rapeseed
13. Fertilizer recommendation for mustard: 80-40-30 NPK Kg/ha as basal with 7.5 kg Borax/ha
14. Under rice toria cropping condition, 5-13-0 NPK kg/ha (incubating with 10 parts of soil for 2 days) should be applied at the time of sowing. After harvest of the rice, 5-13-15 NPK kg/ha (incubating with 10 parts of soil for 2 days) should be top dressed. Each should be inoculated with *Rhizobium* and PSB each @ 50 g/kg seed. At branching and pod initiation, 2% urea should be sprayed
15. In lentil, in addition to fertilizer dose of 10-26-15 N-P₂O₅-K₂O kg/ha (i.e. 75%N-75%P₂O₅-100%K₂O), 0.5 kg Ammonium molybdate and 20 kg ZnSO₄/ha should be applied to soil. Seed should be inoculated with *Rhizobium* and PSB each @ 50g/kg seed
16. For improvement of fibre quality, CRIJAF microbial consortium is to be broadcasted @ 4.0 kg on defoliated bundles of jute plants produced in one bigha of land. The consortium powder has to be broadcasted on each of the three layers of jak placed in water for retting.
17. A fertilizer dose of Urea 150 g, SSP 200 g, MOP 60 g/Tussock applied at 7-10 days after planting of broom grass in case of main crop and 7-10 days after harvest of 1st year broom grass in case of ratoon crop with a spacing of 2 m x 2 m was found to be optimum for the field cultivation of broom grass in the Hill Zone of Assam
18. In broom grass:
Fertilizer dose : 60-45-30 : N-P₂O₅-K₂O kg/ha
Spacing : 1.5 m x 1.5 m
19. Baby corn:
Fertilizer dose : 120-60-60 N-P₂O₅-K₂O kg/ha + 22.5 kg ZnSO₄/ha
Spacing: 45 cm x 20 cm
20. Package of practices for Congosignal grass
 - Baby corn, Zea Mays Linn
 - Broom grass, *Thysanolaena maxima* (Roxb.)
 - Rye grass, *Lolium multiflorum*
21. Rotary tillage with rotavator and reduced tillage (2-3 ploughing followed by laddering) can be used profitably for wheat cultivation in rice-wheat system
22. Considering the variability in flower colours and crop economy (B: C ratio) the variety "Renee", "Tecta", "Sonata" and "Loreto" may be recommended for growing under poly shade net house in NE region
23. Performance of Jahaji variety under organic nutrient schedule with a combination of FYM 10kg + Neem cake

- 1.25 kg + vermicompost 5kg + wood ash 1.75 kg/plant was proved effective in improving the fruit quality as well as the positive effects on soil properties
24. November is the suitable month for planting strawberry in Hill Zone
 25. Media depth of 30 cm along with media composition of sand + coco peat + vermicompost + vermiculite + perlite in the ratio of 1:2:2:0.25:0.25 by volume is best for roof top gardening of flowers like Gerbera c.v Red Gem and Chrysanthemum c.v.Prof. Hariss and Vegetables like Lettuce var. Iceberg and Broccoli var. Centauro
 26. Application of 75 per cent RDF through drip irrigation in coconut in 10 splits from October to March should be given to each palm tree and irrigation @ 32 litres/palm/day registered higher growth, nut yield and ensures higher profitability by saving 25% of the recommended fertilizers
 27. Bio-intensive insect pest management in brinjal against brinjal shoot and fruit borer, *Leucinodes orbanalis*
 - i. Azadirachtin 1500 ppm @ 2ml/lt
 - ii. *Lecanicillium lecanii* (NBAIR strain) 1x 10⁸ spores/ml @ 5g/lt
 - iii. 8 Releases of *Trichogramma chilonis* (MITS) @ 100,000/ha at weekly interval from initiation of flowering.
 28. AdhocPoP on Ber
 29. 100% RDF in respect of nitrogen and potassium at 20:15, 30:25, 30:30, 20:30 at 3rd, 5th, 7th, 9th MAP was recommended for the maximum productivity (58.46 t/ha) against RDF (53.41t/ha) with the benefit cost ration of 4.48 and 4.20 respectively
 30. Sprays with difenoconazole 25% SC (0.05%) or iprodione (25%) + carbendazim (25%) applied (0.2%) 10 days interval, starting on disease appearance may be recommended for the management of leaf spot / leaf blight of gerbera
 31. Sprays with difenoconazole 25% SC (0.1%) or a combo fungicide, iprodion (25%) + carbendazim (25%) at 0.1% at 7 days interval, starting on disease appearance may be recommended for the management of leaf and flower blight of marigold
 32. Method of preparation of candy from peel of citron (*Citrus medica*) have been standardized and on the basis of sensory evaluation it is preferred more than Khasi Mandarin (*C. reticulata*) and Pumelo (*C. medica*). Citron candy in food grade jar can be stored for at least three months.
 33. Dipping cut ends of tuberose spikes with 2-3 buds open in the synthetic food dyes, viz., Raspberry Red, Bright Blue and Orange Red @ 8% concentration for 1 hr results in the most effective tinting with uniform colour intensity of petals.

YEAR: 2018

1. Rice: Shraboni, IC-0624917
2. Flower: Red Heliconia, Shrimp Heliconia, Bihai Yellow Dancer and Bihai Orange Dancer
3. Bund height of 30 cm in rainfed *kharif* rice grown under medium clay loam situation for higher yield of rice as well as to conserve residual moisture
4. Sowing of wheat should be done at ambient temperature of 18-21 °C (last week of November to middle of December) for higher yield and timely harvest.
5. Rice straw mulching @ 4 t/ha with 3 irrigations of 6 cm depth each at CRI stage (20-25 DAS), Booting stage (60-65 DAS) and milk stage (90-95 DAS) increases the grain yield of wheat with higher monetary return in rice wheat system
6. Sowing of maize in paired rows of 50 cm spacing between pair and 70 cm gap between two pairs, while accommodating two rows of black gram between two pairs of maize
7. In zero tilled lentil after rice, 75% N (11.25 kg/ha) along with 100% P₂O₅ (35 kg/ha) and 100% K₂O (15 kg/ha) should be applied at the time of sowing. Seed should be inoculation with *Rhizobium* (50g/kg seed) + Sodium molybdate (1 g/kg)
8. Half of RDF + 2% urea spray at 35-40 DAS and Pendimethalin @ 1 kg/ha as pre-emergence + hand weeding at 30 DAS
9. Foliar nutrition (in addition to basal RDF) for summer greengram: Spray 2% Complex NPK (18:18:18) at flowering
10. For growing chickpea as relay crop with sali rice in medium lowland, seed should be broadcasted in standing rice 15 days after 50% flowering for better crop establishment and profitable crop production (recommendation for Central Brahmaputra valley Zone only).
11. The grass pea variety 'Prateek' should be sown with 60 kg/ha seed rate for relay cropping with sali rice.
12. Two sprays of Azadirachtin 1500 ppm @ 3 ml/liter at 30 and 55 DAT against foliar and sucking pests followed by erection of bird perches @ 15 Nos. /ha and six releases of *Trichogramma japonicum* @ 1,00,000 /ha at 10

- days interval starting from 25 DAT against *Scirpophaga spp.* and *Cnaphalocrocisspp* in rice
13. Management of storage pest in rice with Rynaxypyr 20 SC applied @ 2 ppm a.i. (0.01ml/kg seed) against Rice weevil and Grain Moth up to 9 months
 14. Seed treatment with Imidacloprid 25 WP @ 5g/kg + Carbendazim 50 WP 2g/kg followed by single foliar spray of Imidacloprid 30 SC @ 0.05% 25 days after sowing (DAS) + three foliar sprays of Tebuconazole 25 EC @ 0.1% at 10-15 days interval just after appearance of diseases” for management of MYMV and foliar diseases in green gram and black gram
 15. Use of Biozium against collar rot disease of chick pea
 16. Storage structure of green gram for high moisture condition.
 17. Seventy five percent recommended dose of fertilizers along with 2kg of FYM/m²/year or Fifty percent (50%) recommended dose of fertilizers along with 1 kg of FYM and 300g of vermi-compost /m²/yr in tuberose
 18. **IPM strategy in khasi mandarin to control major pests:**
 - (i). Smearing of tree trunk up to 1m from the ground level with 50 ml Dimethoate + 2 kg lime/ 10 litres of water along with gum against trunk borer during March.
 - (ii) Petroleum oil spray (2%) for citrus butterfly and citrus psylla during April.
 - (iii) The ITK - (Tying of Paddy straw at a height of 1m around the tree trunk to prevent insect pest viz. citrus psylla, lopper and mealy bugs during March- April)
 19. 4 foliar spray of Difenconazole(@0.1%) at 7-10 days interval, starting the first spray at the appearance of the symptom” for management of leaf blight of tuberose
 20. Post-harvest dipping in 5% boric acid solution for 30 seconds for enhancing shelf life of loose flower of tuberose

YEAR: 2019

1. Early *ahu* variety for the Hills zone: AAUDR 9304-14-4-1 (Haccha)
2. Sesame: ShT1
3. Marigold: Composite varieties AAUM-3 and AAUM-4
4. Chilli variety Khorika-sel (Code CV-KH)
5. Buckwheat: Kharupetia-2 recommended for UBVZ, NBPZ and LBVZ
6. Makhana crop (Gorgon nut; nikori) can be grown under field method in wetland/Hullah/low land situation of Assam. Transplanting time 15 March to 15 April and spacing 125cmx120cm are optimum with respects to seed yield, economic return and water productivity and can be recommended for the state
7. Eradication of *Echinochloa crusgalli* should be done beyond plant population 7/m² or culm 40/m² or oven dry weight 16 g/m² in transplanted winter rice
8. Soil Test based Fertilizer Recommendations for Jaha rice
9. Application of S@20kg/ha + B @1.5 kg/ha along with recommended dose of NPK in toria for all zones of Assam
10. NeemAzal @1.5 ml per kg and *Accorus calamus* (TANU formulation) @ 10 ml per liter as best treatment against rice storage pests
11. Rebufenpyrad 20 WP @ 200 g a. i. /ha against *Oligonychus coffeae*
12. Seed treatment with azoxystrobin + difenoconazole @ 1ml per kg seed + spraying of azoxystrobin + difenoconazole @ .075 % at 40-45 days of crop ahausny Jute semilooper
13. Management of Citrus nematode *Tylenchulus semipenetrans* by applying biocontrol agent *Trichoderma viride*@200g/plant
14. Integrated management of *Phytophthora* root rot of Khasi Mandarin’ by application of Dimethomorph (50WP) + Mancozeb (75WP) and addition of two bioagents viz., *Trichoderma harzanium* and *Pseudomonas fluorescens* (100g/plant)
15. To prevent collar rot disease Chickpea, the crop should be sown in between 15th to 30th November (Recommendation)
16. Incidence of pea rust disease is forecasted to appear from 4th week of January in field pea and as prophylactic measures application of Tebuconazole @0.2% for 3 sprays at 10 days interval
17. Sowing of rajmash from 20th to 30th November (recommended in PoP) has added advantage against appearance of leaf crinkle disease as the crop escapes the disease
18. Dusting with ash of crop residues along with fine sand @ (25kg ash + 5kg sand)/ha just after appearance of aphids in early morning and need based dusting with the same at podding stage” recommended for the UBVZ, CBVZ & LBVZ of Assam
19. Improved packaging for long distance transportation of high value horticultural crops

20. Planting in raised bed and plastic mulching (B: C 2.10) or raised bed with straw mulch (B: C 1.96) significantly increases the yield of strawberry
21. Application of 50% of RDF (NPK) + 50% of N through organic recycling with vermicompost, vermiwash, biofertilizer and in situ green manuring is recommended for enhancing productivity and profitability (B:C 2.11) in coconut based high density multispecies cropping system with black pepper, banana, pineapple, turmeric and Assam lemon as intercrops
22. Soil less growing media containing Coco peat, sand and vermicompost in the ratio of 5:2:3 by volume is recommended for protected cultivation (Polyhouse) of Tomato with a B: C ratio of 1.57.

YEAR: 2020

1. Sali rice variety CR1758-2-TTB7 for all zones.
2. Sali rice varieties TTB DR 207-2-1 and TTBDR 205-3-2 recommended only for hill zones
3. Chakuwa rice variety TTBDR103-4-4 for organic cultivation recommended only for hill zones.
4. *JPL-19 is an elite germplasm of Pipali for commercial cultivation in Assam.*
5. Field pea variety AAUSPC101 recommended for HZ, CBVZ, LBVZ, UBVZ and NBPZ.
6. Linseed variety RLC-153 for Utera condition recommended for all Brahmaputra valley.
7. Niger variety NB1 recommended for NBPZ, LBVZ, CBVZ and UBVZ.
8. Foxtail Millet variety Gossaigaon Local (yellow seeded) for Assam.
9. High yielding black pepper varieties viz., Panniyur-1 and Sree Kara
10. Potassium Solubilizing Bacteria in sali rice. Consortia of potash solubilizing bacteria (*Bacillus proteolyticus*+ *Serratia liquifaciens*) @ 3.5 kg as seedling root dip treatment with NPK @ 60:20:20 (kg/ha) for transplanted sali rice
11. Boron and Sulphur application in kharif Blackgram - Application of Boron as basal @1.0 kg/ha (10kg borax/ha or 1.30 kg borax/bigha plus S @ 20kg/ha (133 kg/ha or 18 kg/bigha as gypsum) if SSP is not the source of P in addition to recommended dose of NPK for KharifBlackgram for all zones of Assam
12. With respect to up-gradation of the compiled report on recommendation of cultivation practices for sand and silt deposited areas of Assam, the full package of growing pumpkin and other crops in sand and silt deposited areas of Nalbari, Dhemaji, Chirang and Lakhimpur has been incorporated based on works done at KVK, Nalbari; KVK, Dhemaji; KVK, Chirang, and RARS, North Lakhimpur , respectively (Dr. D. Bhattacharyya, Professor and HoD, Soil Science)
13. Banana bunch bag (17 GSM non-woven polypropylene) can be effectively used to protect bunch from banana fruit scarring beetle and to harvest better quality fruits. The house suggested for necessary recasting of the recommendation statement incorporating information regarding time of application and removal of the bunch bag .
14. Black polyethylene mulch (30 micron) as total ground cover is effective in improving yield and quality of cucumber. The microbial (Beneficial & Harmful) build-up under black polyethylene mulch material needs to be ascertained as against non- mulched plots before recommendation.
15. Black pepper varieties, Panniyur 5 and Subhakara can be suitably be used as a mixed cropping component in arecanut gardens of Assam for higher yield of green and dry berry. The recommendation statement has to be recasted as per the objective of the research program.
16. First week of July is the most suitable period for raising of bush pepper cuttings in Assam.
17. Potting mixture containing neem cake+ silt+cowdung+vermicompost at 1:2:2:2 is the effective for growing of bush pepper varieties Panniyur 1 and Karrimunda to obtain higher green berry yield.
18. Direct seeding of lentil @ 45kg/ha with retention of 30 cm high stubbles in Zero-Till Sali rice-lands just after harvest if the soil is in moist condition (soil moisture near field capacity) by 30th November.
19. Basal application of 20: 46:15 kg N, P₂O₅, K₂O/ha and foliar spray of 0.5% NPK (19:19:19) or 2% urea at pre-flowering and pod initiation stages of field pea
20. Spraying of wheat crop with 7.5% solution of common salt or 150 ppm solution of Na-molybdate at milk and maturity stage can control PHS and increased the grain yield.
21. **Technology I:** For Hill zone of Assam, Kharif Maize-cabbage sequence is recommended to be a profitable crop sequence in upland condition of Assam with a system yield of 234.8 q /ha.
22. **Technology II:** For UBVZ of Assam, Kharif Maize-Tomato is recommended to be a profitable sequence in upland condition of Assam with a system yield of 176.15 q/ha.
23. **Technology III:**Kharif Maize -Rajmah is recommended to be a profitable sequence in upland condition of Assam with a system yield of 85.00 q/ha.

24. The optimum planting window for white and red eyed local potato tuber is 15 th to 30 th October
25. Irrigation at 15cm depletion of water from soil surface can be recommended for autumnrice. (For measurement of irrigation depth, perforated open plastic pipe as described under New IRRI technique of alternate wetting and drying need to be installed in the crop field).
26. Use of Bio-degradable plastic film mulch, which manages weeds effectively and helps in increasing the yield of chilli.
27. Application of rice straw @ 3.5 t/ha just after sowing of field pea against cutworm may be recommended to prevent egg laying by the moth which resulted 50% increase in yield (10.25 q/ha) over control (5.17 q/ha) with C:B = 1: 2.38
28. Five honey bee, Apisceranacolonies/ha may be recommended for getting effective yield (6.41 q/ha) against pollinator exclusion (2.05 q/ha) in coriander with the cost: benefit ratio of 1: 5.10
29. Management of collar rot disease of chick pea : Seed treatment of chickpea seeds with *Trichoderma harzianum* T-6 (10g/kg) + Propineb (1.5g/kg)
30. Organic Management of *Alternariabligh*t disease of Rapeseed: Soil Treatment with Biogreen (T. viride+Plant Growth Promoting Microbe (PGPM) and entomopathogens viz *Bacillus thuringiensis*, *M. anisopliae*, *B. bassiana*, *V. lecanii*) @ 2.5 kg/ha (incubation 1:50)+ Seed Treatment with Biogreen @ 5% + Foliar Spray with Biogreen @ 5% at 45 DAS

B. Directorate of Research (Veterinary)

6.6.3.3 Technology Developed and its Adoption: List of approved technologies developed in the last 5 years along with their adoption and coverage in the jurisdiction of the University

Verities/Breed and other technology developed in last 5 years :

1. **Poultry Variety : KAMRUPA**-A new variety of dual purpose chicken “KAMRUPA” has been developed in AICRP on Poultry Breeding, Directorate of Research (Vety.), AAU, Khanapara.

Salient features of Kamrupa:

The characteristic features of Kamrupais that it produces almost 130-140 eggs in a year against 60-70 eggs laid by the indigenous birds under similar management condition. Kamrupa birds weight around 700-800 grams more than indigenous birds at adult stage. The other characteristics like plumage colour and pattern,



conformation traits, scavenging behaviour, disease resistance capacity etc. of Kamrupa is

similar to Indigenous birds. Kamrupa gets maturity early than Indigenous by about 50-60 days, lays brown shelled eggs which are heavier by about 6-8 grams. The egg and meat quality characteristics of Kamrupa birds are similar to that of Indigenous bird.

2. **Pig Variety** :A synthetic variety of pig named as **HD-K75 (Hampshire Desi-Khanapara 75)**

has been developed under the project AICRP on Pig which was released on 14th October, 2016. The inheritance level of HD- K75 is 75% Hampshire and 25% Desi. This variety of pig is medium in size and has erect ears. The coat colour is black usually with a white belt in the shoulder region, which might extend up to the forelimbs. Occasional white patches in the belly region are also not uncommon. The HD- K75 is reared under the existing management of farmers, provided with locally available low/zero cost of feed *ie* kitchen/vegetable/hotel waste, damaged grains, Rice Bran, local beverage residues etc without any other additional cost involvement. In concentrate feeding, the margin of profit per fattener pig is Rs. 3000/ (approximately) and it varies on the type of feed. It is well adapted in this region especially in the state of Assam. Already this pig variety has gained popularity among the farmers of Assam as well as the entire North Eastern Region of India because of its high production potential, consistency in performance and adaptability to the local environment.



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3. **Breed Registrations**

(i) **Doom Pig:**

Doom', a native variety of pig of Assam, has been registered as a breed with accession number 'INDIA_PIG_0200_DOOM_ 09006' by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi. **The 'Doom' pig is the first livestock of Assam ever registered as a breed.** The registration certificate of the breed of pig was



presented on 23.8.2016 by Secretary of Department of Agricultural Research & Education (DARE) and Director General of ICAR at Krishi Bhawan, New Delhi. The 'Doom' pig is a native variety of pig found in pure form in its breeding tract in Dhubri, Bongaigaon and some parts of Kokrajhar district. This breed is adapted to a special management system called migratory scavenging system with minimum input from the economically backward people whose main vocation is pig rearing. They are larger in size as compared to other indigenous pigs of North East region and the meat of 'Doom' pig is lean and palatable. The breed has a small population and there is a need to make efforts for its conservation. The data required for registration of this breed was generated from the project "Conservation of Doom Pig" funded by Ministry of Agriculture, Department

(ii) **Lakhimi :**

Lakhimi, a native variety of Cattle of Assam, has been registered as a breed with accession number **‘INDIA_CATTLE_0200_LUIT_03041’** by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi. The certificate was formally given on 10th January, 2018.



Lakhimi cattle are small sized, horned and have relatively short legs. Coat colour is variable mainly brown and grey. Hump is medium in size and the backline is slightly curved. Udder is small and bowl shaped. Bullocks are excellent draft animals especially for carting and ploughing in the muddy field for paddy cultivation. Lactation milk yield ranges from 270 to 375 kg.

(iii) Pati Duck :

Pati Duck, a native variety of Duck of Assam, has been registered as a breed with accession number **‘INDIA_DUCK_0200_PATI_11001’** by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi. **This is the only recognized breed of duck in entire India.**



Pati ducks are reared in backyard production system in rural areas of Assam. These are squat in posture. Plumage is dark brown in drakes and greyish black head: tail with black and white feather. Ducks are solid brown. A white ring may or may not be present in neck in both sexes. The bill, shank and feet are predominantly yellow. Pati ducks are used for meat, egg and ritual sacrifices. The average body weight is 1.58 kg. Ceremony for distribution of registration certificate was held on 10th January 2018

(iv) Luit :

Luit, a native variety of Swamp Buffalo of Assam, has been registered as a breed with accession number **‘INDIA_BUFFALO_0212_LUIT_01014’** by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi. Ceremony for distribution of certificate was held on 12th December 2018



Luit are swamp buffaloes having 48 diploid (2N) no. of chromosomes and distributed in upper Brahmaputra valley of Assam. Luit is a medium sized black coloured buffalo with compact body and strong built up. Forehead is broad with conical face and wide muzzle. Eyes are prominent. Horns are broad at the base, curved upward forming a semi circle and taper to a narrow tip. Light white stocking up to the knee are present in both



fore and hind legs. Tail is short reaching up to the hocks. Udder is bowl shaped and small in size. Lactation milk yield ranges from 385 to 505 kg. Bullocks are excellent draft animals for carting and ploughing especially in muddy field for paddy cultivation.

(v) **Assam Hill :**

Assam Hill, a native variety of Goat of Assam, has been registered as a breed with accession number ‘**INDIA_GOAT_0213_ASSAMHILL_06031**’ by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi. The certificate was formally handed over to the scientist on 12th December, 2018

Assam Hill goats are mostly white with occasional black patches on backline and legs. These goats are short legged with small body size. Both bucks and does are beared and have short cylindrical horns which are directed upwards and outward. Ears are medium in size, horizontally placed with pointed tips. This is an important meat type animal with high prolificacy.. THESE GOATS ARE REARED MAINLY FOR MEAT. Adult body weight ranges from 15 to 26 kg. Age at first kidding ranges from 337 to 447 days. Average kidding size is 1.6

Technology generated in Food Processing, Post Harvest Equipment and Machinery:

Most of the technologies developed in food processing and engineering is through the project “AICRP on Post Harvest Engineering & Technology ”AAU, Khanapara Centre

Sl. No.	Name of the Technology	Brief Description
1.	Technology for production of ham with the inoculation of mixed starter culture for improved sensory properties and safety indices.	Pork ham is a meat delicacy. Technology is developed for value addition of pork ham by improving sensory properties using starter culture. Freshly collected hams are deboned and injected with approximately 2 to 2 1/2 litres of the brine solution and vacuum tumbled at 100 Kpa for uniform distribution of brine. Active cultures of <i>M. varians</i> M ₄₈₃ and <i>L. acidophilus</i> are injected at multiple sites of the cured and tumbled ham to reach a dose level of approximately 10 ⁶ cfu/g. Hams are then immersed in a weaker brine solution {(common salt reduced by 0.5% (w/v)} and stored at 4°C for 10 days. After this fermentation period, the rind and fat from the hams along with fascia are removed and kept hung in ham net bags for 15 min. cold smoking is done at 25°C for an hour in a smoke cabinet. After smoking, the hams are again stored at 12°C for a further 4 days. The hams are then cooked in the cooking vat to an internal temperature of 75°C for an hour. Cooked hams are cooled overnight at 4°C before carving. Carving is done by using a meat slicing machine. The slices are then vacuum packaged in the vacuum packaging machine. Improved sensory properties were observed without any effect on quality of ham.

		Application of starter culture resulted in production of ham with superior sensory property and higher acceptability resulting in higher pricing of the ham. Starter cultures Inoculated Finished Ham Carved Slices of Starter Cultures Inoculated Finished Ham
2.	Development of dietary fibre enriched pork and chicken nuggets and sausage.	Dietary fiber, found mainly in fruits, vegetables, whole grains and legumes is probably best known for its ability to prevent or relieve constipation and also helps in maintaining a healthy weight and lowering risk of diabetes, heart disease and even cancer. For preparation of nuggets and sausage, frozen lean and fat were minced and cured by using the standard curing ingredients and chill stored for up to 96 hours. After completion of the curing process, the minced meat was incorporated with the flour of corn/ oats at 5% level for nuggets and green pea /corn flour at 5% level for sausage. The pork mince was then stuffed into moulds and cooked to an appropriate internal temperature for a definite period of time and then immediately immersed in chilled water. Nuggets were prepared by cutting the meat block into different shapes. For preparation of pork sausages, the minced pork was stuffed into natural/synthetic casings and cooked in a cooking vat to identical time temperature combinations as that of the nuggets. It was found that incorporation of dietary fibre at the level of 5% does not affect the sensory or physico-chemical attributes of the product but improves the functionality of the product. However, inclusion of dietary fibres at higher levels of 10% tended to affect the sensory attributes of the product. A functional healthy emulsion meat product can be prepared by addition of 5% level of dietary fibre without affecting the sensory properties. Besides slight reduction in production cost can also be achieved using this technology due to replacement of meat with fibre.

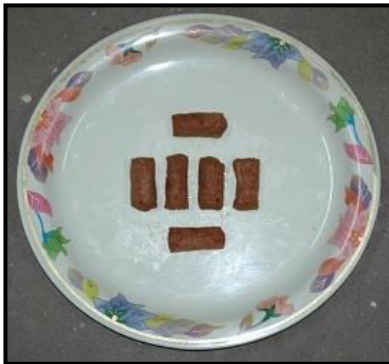
		
3.	Technology for utilization of slaughterhouse blood for production of value added pork products	Animal by-products including blood comprise of 5-7% of the live weight of the animal. The slaughterhouse blood is underutilized and generally goes as waste causing environmental nuisance. A technology has been developed for effective utilization of blood in preparation of emulsion based meat product. Aseptically collected blood using sodium citrate as anticoagulant was centrifuged to separate plasma. The separated plasma was then used as a replacement of fat from 5% to 8% of the total 10% fat added in emulsion based product. Pork sausage, loaf and patties can be prepared with the incorporation of 5- 8% plasma as a replacement of fat by following standard technique and recipe. The sausage mix is then stuffed into natural/ synthetic casings with the help of vacuum stuffer and cooked to an internal temperature of 75⁰C for ½ hour. The cooked sausages are then packaged under vacuum. The technology yields processed pork products with low fat and high protein content for health benefit of the consumers. Addition of plasma enhances the shelf life of the product at refrigeration temperature up to 20 days. 

4.	Utilization of slaughter house by-products for production of high value cheaper pet (Dog Loaf) food and Pet Treat	Dog loaf: By-products are thoroughly washed with clean potable water to minimize the contamination. For preparation of dog loaf the by-products at the rate of 60% are minced and mixed with other ingredients and put into a loaf pen. The loaf pens are then placed in cooking vat at 85°C for 1 hour. The products are packed in food grade packaging materials by vacuum and aerobic packaging method. The shelf life of the products is found to be 7 days under aerobic packaging and 14 days in vacuum packaging at refrigerated temperature. The dog loaf with 60% By-products was found to be nutritionally rich with higher crud protein and fat content and was well accepted by pets. Pet treat: By-products from poultry are thoroughly washed with clean potable water to minimize the contamination and cut into small pieces. The fat from the by-products are removed by rendering. Agricultural by products viz. fruits and vegetable waste are also thoroughly cleaned and cut into small pieces. All the by-products are then dried in hot air oven at 80°C for about 48 hours and then subsequently pulverized. For preparation of pet treat, vegetable powder and offal powder are mixed along with binders to produce a mixture and then moulded into suitable shapes and further dried in hot air oven at about 80°C. The products are then vacuum packed in food grade packaging material. The products can be directly offered to dog without further cooking. The cost of production on the yield of the final product (pet treat) as calculated considering the cost of raw materials (by products and agricultural waste) and binders including electricity and other miscellaneous charges was found to be Rs. 250.00 per kg.  60% By-products Ready to eat Dog loaf  Ready to eat pet treat
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5.	Development of solar dried pork product fortified with indigenous herbs of Assam	A technology has been developed for preparation of meat balls in a solar dryer. Meat is thoroughly washed with clean potable water to minimize the surface contamination. Then the meat is cured for overnight at room temperature. Thereafter the meat is minced and mixed with spices and other antioxidant rich agricultural and fruit based ingredients and marinated for 5-6 hrs at refrigeration temperature. The meat balls are then placed in a solar dryer and dried for a period of 36-40 hours for meat balls. The products are packed in food grade packaging materials anaerobically. The dried meat balls can be consumed in the form of curry/soup etc. after rehydration. The ready to cook product has a shelf life of more than 6 months at room temperature. 
6.	Chicken <i>Jalebi</i> (Ready to eat meat snack)	Salty snacks are mostly preferred by the health conscious consumers/customers now a day because of a sharp rise in case of diabetes and other health related problems. The availability of suitable and desirable snacks of animal origin among the citizens are a long standing demand to have ready- to -eat products, which are in very much short supply as compared to sweet meat products. Befitting to the situation a meat product could be prepared in the shape of a popular sweet “Jalebi” has been prepared. Freshly slaughtered chicken is first deboned and then, fat and skin are separated. Non meat ingredients including black gram flour (urad dal), semolina (suji), rice flour, corn flour, Bengal gram flour (besan) and plain dahi are mixed together with water and a batter is prepared. The batter is allowed to ferment by normal fermentation process for 24 hours at room temperature. The meat portion, non-meat ingredients (batter), vegetable oil, salt, baking powder and all other spices are added and then mixed properly to form an emulsion. <i>Jalebi</i> shape is given from the emulsion and deep fried in vegetable oil in a frying pan and dipped in readymade sauce for 1 to 2 minutes. This is a ready to serve meat product. The product evokes good response among consumers and has high commercial potential to get popularised as non-veg convenient product.

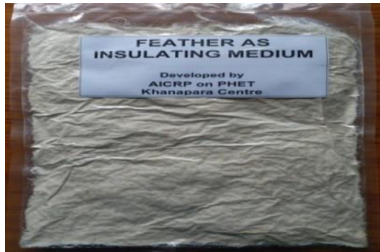
		 Ready to eat Chicken Jalebi
7.	Meat Powder incorporated with locally available vegetable and fruit based natural antioxidants	Meat powder is developed incorporating local herbs of Assam and certain by-products of animal origin with pork. The pork is deboned, minced and marinated with the indigenous herbs, salt and other spices. The meat mix is cooked in a pressure cooker for 5 minutes at 15lb pressure. The meat mix is dried in the solar dryer at 60°C for 7-8 hours. Herbs and animal by-product which are rich in iron are mixed with the dried meat mix and further the whole mixture is dried in the solar dryer at 60°C upto a moisture content of 10-12%. The whole mixture is then ground into powder and packed in a food grade packaging material anaerobically. The powder can be taken in the form of chutney, soup, along with vegetables or in the form of capsules. It can also be used to develop various snacks like <i>papad</i>, <i>chips</i> and <i>bhujia</i> etc.   Spent hen chicken Iron enriched goat meat
8.	Egg Albumen Paneer	Eggs are a great source of a complete high quality protein with few calories. With increasing egg production and subsequent impact on the market, the industry has realized the importance of

		creating demand for processed egg products. Since there is an increasing demand of highly nutritious food with very low level of fat or instead fat free food product, <i>egg albumen paneer (EAP)</i> has been developed to fill the satiety of both <i>non-vegetarian</i> as well as the <i>ovo-lacto vegetarians</i>. For preparation of egg albumen paneer, whole eggs have been procured from the local markets/ layer farms. After procurement, the eggs are then broken in the laboratory and the albumen part is separated from the whole egg by employing a steel sieve. Thereafter, the egg white is whisked with a mechanical hand blender, till formation of foam. The foamed egg white is mixed with <i>glutinous rice flour/ joha rice flour</i> and <i>oat flour</i>, besides dried spices and condiments to improve upon the flavor and taste. The mixed content is then placed in a stainless steel mould for shaping the content as rectangular paneer block. The mould is subjected to a steam cooking for 35minz with a core temperature of 75°C. The cooked mould is cooled down and cut into cubes. Then the cubes are subjected to drying in a hot air oven at 80-85°C for 2-3 hours. Egg albumen paneer can be stored at refrigeration temperature for upto 30 days.  Egg Albumin Paneer
9	Honey Treated Deep Fried Chicken Nuggets	Honey exerts preservative effect on food products. Spent chicken was dressed as per standard procedure and hot deboning process was followed to separate lean and fat. The lean and separable fat were stored at (-) 20°C and (-) 26 °C, respectively until use. The lean was cut into small pieces weighing approximately 30-50g. The lean pieces of chicken were then packed tightly in polythene bags and stored in a deep freeze maintained at -20°C. The separable chicken fat was also cut into smaller pieces of about 20-30g and after packing these were stored at -26°C. The lean of spent chicken and broiler earlier stored at -20 °C were first thawed for overnight and then vacuum tumbled for 3-4 hrs. The chicken fat was however, not thawed and introduced into the bowl chopper in the frozen state. The

		tumbled lean and frozen fat were mixed according to different formulation and bowl chopped for 1 min at slow speed followed by 2 min at high speed. Spices and curing ingredients were directly added as per the recipe to the chopped meat in the bowl chopper. The emulsions thus prepared were kept overnight in the refrigerator maintained at 10-12°C. Finely crushed ice crystals @ about 1% of the mix were added during bowl chopping. The chicken emulsions were then filled into moulds and cooked in a preset time temperature combination in a cooking vat. Immediately after cooking, the meats with the mould were immersed in ice-cold water. The cooked meat were then cut into desired shape and soaked in honey syrup for overnight in a glass beaker. Following soaking, the meat cubes were washed in running tap water to remove the excess of the honey and allowed to dry. Chicken nuggets thus prepared were deep fried in cooking medium and on cooling packaged in a polyethylene bag.  Fig: Honey Treated Deep Fried Chicken Nuggets
10	Spent hen meat pickle	The meaty cuts are deboned and washed properly. Common salt (1%w/w) and sugar (0.5%w/w) are then added and rubbed all over the surface thoroughly. Meat pieces are then vacuum tumbled for 30 minutes and stored at refrigeration temperature for overnight. After storage the meat pieces were cut into small cubes of approximately 1.5 cm size and transferred to a wide mouth glass jar/beaker and filled with vinegar diluted with water in the ratio of 1:3 and further stored for overnight at refrigeration temperature. The excess of the vinegar was then drained off and the meat cubes were allowed to dry for some time at room temperature. The meat cubes were then deep fried in mustard oil with the addition of paste of onion, ginger, garlic, cumin powder, red chilli powder and coriander powder. Initially, the product is cooked at simmering temperature till it is properly done and thereafter it is cooked at high temperature till

		development of a brownish colour on the surface. After cooling to room temperature, the product is stored in PET jar/glass bottles or polyethylene bags and stored at room temperature. The shelf life of the products is found to be 4 months at room temperature.  Spent hen meat Pickle
11	Pork sausage with banana pseudostem flour	The central core of the Banana pseudostem is removed by manual peeling of the several layers of the skin (epidermis) with a clean knife, then rinsed with running tap water and cut into small pieces. The pseudo-stem is then boiled for to soften the texture. The pseudo-stem are then dried in a ventilated dryer at 60⁰C till moisture content is reduced to 10-12%. The dried slices of pseudostem are then blended in a mixer grinder and sieved by passing through a mesh sieve of size 355µm. Banana pseudostem flour obtained is then kept in a glass container and stored in a chiller prior to use. Pork sausage can be prepared with the incorporation of 1.5% banana pseudostem floor as a replacement of corn flour by following standard technique and recipe. The sausage mix is then stuffed into natural/ synthetic casings with the help of vacuum stuffer and cooked to an internal temperature of 75⁰C for ½ hour. The cooked sausages are then packaged under vacuum.  Pork Sausage with banana pseudostem flour
12	Eco-friendly packaging material from banana leaves for hauling	There is an increasing concern on widespread use of petroleum based plastic materials for packaging since they are non biodegradable and recyclable to a very less extent and persist in the environment for ages and create pollution.. Natural fibers obtained

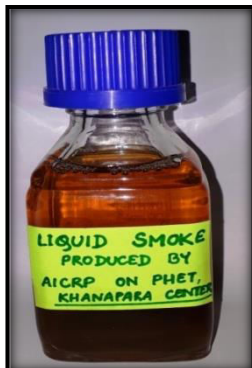
	of meat and meat products	from agricultural residues and forestry are completely biodegradable and eco-friendly with absence of associated health hazards. Recalling the call given by UNO on 5th June 2018 world environment day “Reduce the use of plastic” by alternative materials, an attempt has been made to develop a packaging material from banana leaves which constitutes a major biomass in banana growing regions of the country and is difficult to dispose. The banana leaves were collected, cleaned with potable water and sorted. Then it was subjected to heat treatment at 100°C in plasticizer added water for 20 seconds, which was found to be the best time-temperature combination. Thereafter, they were pressed and allowed to partially dry under shed at room temperature. The treated leaves were then pasted in double layer and joined to make a larger sheet using an indigenously developed adhesive. Then they were subjected to drying at room temperature. After drying they were stitched into bags of different size. The shelf life study of the packaging material is in progress. Benefits: 1. Generation of wealth from waste. 2. Low cost eco friendly packaging material 3. Removing environmental nuisance  Banana leaf packaging Bags of different capacity
13	Utilization of poultry feathers for preparation of upholstery items	In mature poultry, feather accounts for 5-7% of the live weight of the poultry and is composed of 90% protein, major part of which is keratin, an insoluble and fibrous protein. The disposal of poultry feathers is a difficult and costly affair and thus creates a major environmental nuisance. However its excellent insulating property can be exploited for its utilization in preparation of bedding materials. A technology on utilization of poultry feathers for upholstery items has been developed. The poultry feathers were collected from the slaughterhouse/ butcher shops. Then it was cleaned with mild detergent to remove the dirt and sorted out. The sorted feathers were

		then soaked overnight in petroleum ether to remove any grease. Then feathers were partially hydrolyzed by heat and chemical treatment. Then it was rinsed and dried at 50°C. The dried feathers were then made fluffy by rotation at high speed. The fluffy feathers were then treated with odouring agent. These treated feathers are then used for preparation of different bedding materials. Benefits: 1. Generation of wealth from waste. 2. Low cost bedding material/ insulating material 3. Removing environmental nuisance        Development of reinforced feather board by using different adhesives and cementing materials
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Post Harvest Equipment and Machinery Developed:

1.	Solar Dryer for processing of meat and fish	A solar dryer was fabricated using locally available material i.e. wood. The dryer consists of a tray type (wire net) drying chamber with heating filament and exhaust fan inside it; panel for collection of heat made up of glass and the interior is coated with black paint, temperature control knob and air ventilation knob. A battery backup system is provided using a solar panel which charges a solar powered battery by
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		converting solar energy through solar powered converter. The unit is fitted with revolving wheels to make it mobile. The average temperature of 65°C is the most suitable temperature for drying of meat as high temperature may lead to early degradation of protein. Time required for drying of various meat products depends on the thickness of the products. Average time required for drying of meat powder is 7-8 hrs. and for meat balls and cubes is 30-36 hrs. Dimension: Drying Chamber: 2.78'×1.72'×3.09' (L×B×H) Collector/ Panel: 4.24'×3.15'×0.88' (L×B×H) Maximum temperature attained: 75°C (Environmental temp. 37-38°C) Average temperature attained: 67°C Relative humidity inside chamber: 20-25% Battery backup using solar powered battery: 4 hours Cost of the equipment (approx.): Rs. 30,000.00 
2.	Liquid Smoke production plant	L Liquid smoke can be a safer alternative to traditional smoke for production of smoked meat products as high temperature heating cause formation of carcinogenic compounds like benzopyrenes. Machinery for production of liquid smoke has been developed. Two containers were fabricated with galvanized tin sheets. One of the containers was fitted with a heater (1.2KW) and the other container was used as sawdust container. The lower chamber was fitted with a condenser made of copper coil for circulation of cold water insulated with glass wool. The condenser is fitted with an exhaust pipe for release of the excess smoke from the unit. The condenser was supplied with chilled water with the help of water cooling and circulating machine (Make:

		Pelican Equipments, Chennai). Liquid smoke can be produced easily with some technical expertise. Here moist hard wood chips or saw dust is allowed to smoulder over a hot surface and the resultant smoke is condensed in a condenser pipe. The condenser pipe is cooled by circulating cooling water pipes. Smoke while passing through the condenser gets condensed and is collected through the nozzles fitted on the bottom side of the condenser pipe. The collected liquid smoke is filtered through activated charcoal or may be allowed to stand undisturbed for 24 to 48 hrs to settle down the tar and the other gross solid matters. Thereafter, the clean filtrate/ supernatant can be used for preparation of various meat products. Cost of Fabrication of Liquid Smoke Production Plant was calculated to be Rs. 16,000.00 (Rupees Sixteen Thousand) only. The plant is able to generate liquid smoke @ 250 ml/hr. Cost of Liquid Smoke produced was Rs. 500.00 / ltr.  				
3.	Pedal Operated Meat Mincer	The pedal operated meat mincer is a better alternative to the traditional hand mincers. It is highly efficient, less time consuming and can mince a larger amount of meat in comparison to hand mincers. Pedal operated meat mincer may be a suitable option for small scale entrepreneurs to cater to the demand of comminuted meat products. All the raw materials like iron sheet, GI pipe etc. were procured from the local market and the machine has been fabricated with the help of one of the local fabrication firms. After construction/ fabrication, the pedal operated meat mincer was tested in the laboratory of Khanapara Centre of AICRP on PHET for different parameters. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Weight of the machine :</td> <td style="padding: 5px;">35 .0 kg</td> </tr> <tr> <td style="padding: 5px;">Overall dimensions of the machine :</td> <td style="padding: 5px;">Height: 42" Width: 48" Length: 40"</td> </tr> </table>	Weight of the machine :	35 .0 kg	Overall dimensions of the machine :	Height: 42" Width: 48" Length: 40"
Weight of the machine :	35 .0 kg					
Overall dimensions of the machine :	Height: 42" Width: 48" Length: 40"					

		Overall dimensions of the cutting table : Breadth: 24" Length: 26" Height of the Operator Seat: 31" Dimension of mincer: 6" (L) x 3.5" (B) Mincer sieve pore size: 5.0mm Length of the chain pully: 38" Dimension of the Hopper: 3.5" (diameter)	
			
4.	Mobile Poultry processing cum by-product collection cart	A small smart eco-friendly mobile poultry shop with slaughtering cum byproduct collection unit conducive for sale of poultry meat under hygienic conditions was developed. An e-rickshaw (Battery operated) has been modified to form the mobile processing unit having facilities for carrying out all slaughtering operations like bleeding, defeathering, dressing and storage of carcass under chilling conditions. Besides, it has a carrying capacity of 50 live birds. Further, the machine also has a separate component for byproduct collection under chilling condition thereby promoting effective utilization of by-product and reduced environmental nuisance. All the units in the machine are operated on 12 V DC current supplied using 4 lithium ion battery fitted with the rickshaw. The unit will be a suitable alternative for small poultry	

		vendors / butchers in cities and towns and will also add in providing hygienic and wholesome meat to the consumers at the doorstep besides keeping the city clean. The different components of the unit are- live bird cage (50 birds capacity),bleeding unit, hot water tank for scalding, defeathering unit, carcass fabrication table (S.S), butchers log for chopping of meat, weighing balance (battery operated), chiller for storage of fresh meat, chilled by-product collection chamber (separate chamber for head and shank and viscera), water storage tank (75 litre capacity) with pump, wash basin, effluent collection tank. <table><tr><th>Name of the component</th><th>Dimension (LXBXH)</th></tr><tr><td>Whole unit</td><td>9.85' x 3.28' x 7.22'</td></tr><tr><td>Carcass fabrication table</td><td>2.55' x 3.28'</td></tr><tr><td>Live bird cage (two tier)</td><td>3.5' x 3.28x2.62'</td></tr><tr><td>Defeathering unit</td><td>17" diameter</td></tr><tr><td>Scalding tank</td><td>8"x16"</td></tr><tr><td>Chiller for storage of meat</td><td>16"x19.5"x19.5"</td></tr><tr><td>Chilled by-product collection chamber (bifurcated)</td><td>16"x19.5"x19.5"</td></tr></table> 	Name of the component	Dimension (LXBXH)	Whole unit	9.85' x 3.28' x 7.22'	Carcass fabrication table	2.55' x 3.28'	Live bird cage (two tier)	3.5' x 3.28x2.62'	Defeathering unit	17" diameter	Scalding tank	8"x16"	Chiller for storage of meat	16"x19.5"x19.5"	Chilled by-product collection chamber (bifurcated)	16"x19.5"x19.5"
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5	Development of a pork cutting, selling cum display cart is in progress.	Most of the NE people prefer fresh and hot meat for consumption immediately after slaughter. This may be due to unavailability of cold chain because of limited electricity in this region or lack of technical knowledge of processing of meat products. The taboos related to pig slaughter and pork processing still exist in our society and pose the real threat to the developmental activities. Unhygienic floor slaughter of animals in overcrowded places is commonly seen in the NER. Neither the concerned authority nor the public are serious about the hygienic production, sale and marketing of																

		 	pork in public places. The increase demand for pork is being met from unauthorized slaughter, compromising hygiene and possible public health risks. Immediately after slaughter meat is sold in open market. Although Municipal regulations are there, however, pork traders hardly follow the rules in the retail shops. The carcasses of pigs slaughtered elsewhere, are brought to the retail shops by various means, most of them involves unhygienic practices. A small bamboo/ wooden table or banana leaf or plastic/ Nylon sheets are used for selling the pork in regular market. The house flies, unidentifiable insects as well as dust and dirt can contaminate pork, thereby increasing the microbial load and causing early spoilage of meat leading to post harvest losses. Therefore, a hygienic meat cutting table with cooling system has been proposed to develop in this project so as to enhance the shelf-life as well as hygienic status of pork in regular market.
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Animal Health :

Sl. No.	Title of the Technology Developed	Status of the technology
1	Single dilution indirect-ELISA kit for detection of Classical Swine Fever Virus (CSFV) Antibody (2017)	Transfer to Field Labs of Assam, Meghalaya, Manipur & Tripura for validation.
2	Single dilution indirect-ELISA kit for detection of Duck plague Virus antibody (2018)	Transfer to Field Labs of Assam, Manipur& Tripura for validation.
3	Viral Haemagglutination and Haemagglutination Inhibition test for detection of NDV and assessing viral antibody (2017)	Transfer to all Field Labs of 8 states for validation.
4	Staining kit for microscopic detection of haemoprotozoa (2017)	Transfer to all Field Labs of 8 states for validation
5	Sub-clinical mastitis detection kit (2018)	Transfer to all Field Labs of 8 states for validation.

Technology adoption with respect to AAU developed rice varieties

Sl No	Variety	Area (lakh ha)	% area
1	Ranjit	7.10	59.17
2	Bahadur	1.85	15.42
3	Ranjit Sub 1	1.20	10.00
4	Gitesh	0.50	4.17
5	Shraboni	0.20	1.67
6	Aghoni/Keteki Joha	0.50	4.17

6.6.3.4 Research Publication: List of research articles (NAAS raking 5 or above) published in national and international journals (only based on work conducted in the university)

Year: 2016-17

Authors	Title of Paper	Name of Journal	NASS Rate	Year of publication
U.S. Saikia, R. Krishnappa, B. Goswami , Santanu Das, A. Kumar, E. Shylla, M. Lyngdoh and S.V. Ngachan	Effect of altitude and slope on radiation absorption, growth and yield of jhum-land rice at Ri-Bhoi district of Meghalaya	<i>Journal of Agrometeorology</i> , 18(1): 128-130	6.36	June, 2016
R.L. Deka, R. Hussain , K.K. Singh, V.U.M. Rao, R. Balasubramaniam and A.K. Baxla	Rice phenology and growth simulation using CERES-Rice model under the agro-climate of upper Brahmaputra valley of Assam	<i>MAUSAM</i> 67 (3): 591-598	6.31	July, 2016
Rijumani Rajbongshi, P. Neog, P.K. Sarma, Kushal Sarmah , M.K. Sarma, D. Sarma and M. Hazarika	Thermal indices in relation to crop phenology and seed yield of pigeon pea (<i>Cajanus cajan</i> L. Millsp.) grown in the north bank plains zone of Assam	<i>MAUSAM</i> 67 (2): 397-404	6.31	April, 2016
Prasanta Neog, P.K. Sarma, G. Ravindra Chary, S. Dutta, R. Rajbongshi, K. Sarmah , S. Baruah, D. Sarma, M.K. Sarma, P. Borah, Ch Srinivas Rao & G.N. Hazarika	Building climate resilient agriculture through traditional floating rice in flash flood affected areas of the North bank plains zone of Assam	<i>Indian Journal of Traditional Knowledge</i> Vol. 15 (4): 632-638	6.37	Oct, 2016
B. Goswami, R. Hussain , V.U.M. Rao and U.S. Saikia	Impact of climate change on rice yield at Jorhat, Assam.	<i>Journal of Agrometeorology</i> 18 (2): 252-257	6.36	Dec, 2016
Pathak K, Rath S, Verma H, Sarma R N and Baishya S.	Assessment of physical, chemical and antioxidant properties of few pigmented glutinous rice grown in Northeast India.	<i>Indian J. Plant Physiology</i> , 21 (3): 287-299.	5.18	2016
Pathak K, Rath S, Verma H, Baishya S and Sarma R N.	Microsatellite based association studies for grain mineral content in local winter (Sali) rice of Assam.	<i>Indian Journal Genetics and Plant Breeding</i> , 76 (3): 356-360.	6.47	2016
Pathak K, Rath S, Verma H, Sarma R N and Baishya S.	Variability in Grain Quality Characters of Local Winter (Sali) Rice of Assam, India.	<i>Indian J. Plant Genet. Resour.</i> 29 (1): 22-31.	5.12	2016
Badal Bhattacharyya, Gautam Handique, D. Pujari, S. Bhagawati, H. Mishra, D. Gogoi and H.	Species diversity and relative abundance of scarab beetle fauna in Assam, North East India	<i>Journal of Entomology and Zoology Studies</i> 5 (1): 711-716	5.53	2017

Debnath				
Sudhansu Bhagawati, BadalBhattacharyya, Himangshu Mishra and DhanalakhiGogoi	Chemical management of termites (<i>Odontotermesobesus</i>) in preserved setts of sugarcane (<i>Saccharumofficinarum</i>)	<i>Journal of Entomology and Zoology Studies</i> 5 (1): 856-859	5.53	2017
Saikia, R. Mishra, H., Devi, A. and Saikia, D. K.	Biodiversity of Odonates in rice ecosystem, Titabar, assam	Journal of Entomology and Zoology studies. 4(4): 1376-1381	5.53	2016

Borah, B.K., Zarreen, F., Baruah, G., Dasgupta, I.	Insights into the control of geminiviral promoters	<i>Virology</i>	8.88	2016
P Assma, Deka A, Goswami G, Barooah M and Boro R C	Cellulase Producing Thermophilic Bacteria from Hot Spring of Assam.	<i>International Journal of Microbiology Research.</i> 8 (8), 776-780.	5.31	2016
Deka D, Zaman S, Namdev R, Phukon M, Borthakur A, Kalita R, Modi MK and Sen P.	Efficient protocol for isolation of high-quality RNA from tea (<i>Camellia sinensis</i>) without using liquid nitrogen for molecular analysis	Indian Journal of Biotechnology. 15 : 81-84	6.34	2016
Bora, S S, Sarma K, Das S, Barooah M	Structural and Functional analysis of Glutamate Decarboxylase System in <i>Bacillus aryabhattai</i> .	Research Journal of Biotechnology 11(1)1-11	5.00	2016
S S Bora, J Keot, S Das, K Sharma, M Barooah	Metagenomics analysis of microbial communities associated with a traditional rice wine starter culture (Xaj-pitha) of Assam, India	3Biotech 6:153, DOI 10.1007/s13205-016-0471-1	7.79	2016
S. M. Dehdashti, S. Acharjee, S. Kianamiri, and M. Deka	An efficient Agrobacterium rhizogenes-mediated transformation protocol of <i>Withania somnifera</i>	Plant Cell, Tissue and Organ Culture	8.20	2016

Bordoloi, M.; Bordoloi, P.K.; Dutta, P.P.; Singh, V.; Nath, S.; Narzary, B.; Bhuyan, P.D.; Rao, P.G. & Barua, I.C.*	Studies on some edible herbs: Antioxidant activity, phenolic content and antifungal properties.	Journal of Functional Food, 23: 220-229	9.97	2016
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Year: 2017-18

Authors	Title of Paper	Name of Journal	NASS Rate	Year of publication
T.V. Kumar and U. Barman	Livelihood Security Conditions of the Interstate out Migrants of Rural Youth of Assam, India	<i>Int.J.Curr.Microbiol.A pp.Sci</i> (2017) 6(7): 2497-2503	5.38	2017
Kamni Paia Biam and Utpal Barman	Effectiveness of Research-Extension-Farmer linkages of Agricultural Technology Management Agencies in Assam, India	<i>Int.J.Curr.Microbiol.A pp.Sci</i> (2017) 6(12): 1873-1883	5.38	2017
T.V Kumar and U. Barman	Perceived Conditions of Interstate out Migrated Rural Youth of Assam for Adopt Agricultural Activities	<i>Int. J. Curr. Microbiol. App. Sci.</i> 7(3):2273-2277	5.38	2018
Navanita Deka, U. Barman, Badal Bhattacharyya	Farmers' Attitudes towards Group Approach on Management of White Grub (<i>Lepidiota mansueta</i>)	<i>Int.J.Curr.Microbiol.A pp.Sci.</i> 7(3):465-471	5.38	2018
Barua, I.C.* ; Deka, J.; Devi, M.; Deka, R.L.; & Moran, J.	Weeds as emerging threat to biodiversity: a consequence of spread of <i>Ludwigia peruviana</i> in Dhansiri and Kopili catchment areas of Assam, North East India	Current Science, 112(9): 1904-1914	6.97	2017
Hoque Bepary,R.; Wadikar,D.D.; BoraNeog,S.* and Patki,P.E.	Studies on physic-chemical and cooking characteristics of rice bean varieties grown in NE Region of India	Journal of Food Science and Technology, 54: 973-986	8.2	2017
Tamuli, B., Bhattacharyya, D., Barua, N. G., Basumatary, Das, K. N. and Kurmi, K. 2017.	Kinetics of boron adsorption in soils of Assam state, India.	<i>Asian J of Chemistry.</i> 29 (2): 313-16.	5.0	2017
Medhi, K.; Neog,P.; Goswami,B.; Deka, R.L.; Kurmi, K. ; Sarmah, K. and Khanikar, P.G. 2017.	Evaluation of CERES-Rice model for Upper Brahmaputra Valley Zone of Assam.	<i>Journal of Agrometeorology.</i> 19 (3):270-73.	6.36	2017

Bepary, R.H., Wadikar,D.D., Neog,S.B. and Patki,P.E.	Studies on physic-chemical and cooking characteristics of rice bean varieties grown in NE region of India.	<i>Journal of Food Science and Technology</i> 54:973-986	8.20	2017
Deka,S.D, Sharma,,	Organic crop production:	Journal of	5.51	2018

K.K., Bordoloi, N and Das, J	An analysis of impact of shiviyog modality of agriculture on growth and yield of crops	Pharmacognosy and Phytochemistry 7(2):1840-46		
R. Chutia ^{1*} , P.C. Bhagawati ¹ and D.J. Nath ²	Effect of Biofertilizer and Integrated Nutrient Management on Growth on Potato and Soil Microbial Activity	International Journal of Current Microbiology and Applied Sciences, 6(12):355-365	5.38	2017
Barua, I.C. , Deka, J., Devi, M., Deka, R.L. & Moran, J.	Weeds as emerging threat to biodiversity: a consequence of spread of <i>Ludwigia peruviana</i> in Dhansiri and Kopili catchment areas of Assam, North East India.	<i>Current Science</i> 112(9): 1904-1914.	6.84	2017
Mahanta, K, Dutta, P., Nath, D.J., Deka, J., Barua, I.C. , Deka, and Sarma, A.K.	Long term application of herbicides on soil microbial demography in rice -rice cropping sequence of North-East India.	<i>Indian Journal of Weed Science</i> 49(4): 317–323, 2017	5.17	2017
Barua C C, Patowary P, Dutta Roy J, Pathak D C, Bordoloi M J & Barua I C.	Ameliorating effect of <i>Gnetum gnemon</i> L. on hypothalamic pituitary adrenal axis during acute and chronic stress in rats.	<i>Indian Journal of Traditional Knowledge</i> . 17(2): 240-246.	7.27	2018
Kalita B P, Gogoi P K, Sarma A, Barua I C & Neog B.	Effect of integrated nutrient management and different plant spacing on Tulsi.	<i>Intern. Journal of Current Microbiology and Applied Sciences</i> . 7(2): 1352-1361	5.38	2018
Kaur, S., Barua, I. C. , Kaur, T., Kaur, N., Kaul, A. & Bhullar, M. S.	Appearance of new weeds in Punjab.	<i>Indian J. Weed Sci.</i> 50(1): 59-63, 2018.	5.17	2018
K. Mahanta, P. Dutta, D.J. Nath, J. Deka, I.C. Barua , N.C. Deka and A.K. Sarma ¹	Long term application of herbicides on soil microbial demography in rice - rice cropping sequence of North-East India	<i>Indian Journal of Weed Science</i> 49 (4): (In Press)	5.17	2017
*Kaberi Mahanta ¹ , A.K. Sarma ² and J. Deka ¹	Metribuzine dissipation in chilli grown soil and its residues in the soil and fruit	<i>Indian Journal of Weed Science</i>	5.17	2018
Badal Bhattacharyya, Banajitchoudhury, Pranati Das, Satyendra Kumar Dutta,	Nutritional composition of five soil-dwelling scarab beetles (Coleoptera: Scarabaeidae) of Assam,	<i>Coleopterists Bulletin</i> 72(2): 1-8	6.50	2018

SudhansuBhagawati and Khanin Pathak	India			
DwibanPujari, Badal Bhattacharyya, Himangshu Mishra, SudhansuBhagawati, DhrubaJyotiNath and Binoy Kumar Medhi.	Linking soil physico-chemical properties with the recent upsurge of <i>Lepidiotamansueta</i> (Coleoptera: Scarabaeidae) in sugarcane ecosystem of Majuli river island, Assam, India	<i>Journal of Entomology and Zoology Studies</i> 42 (1) : 19-26	5.53	2018
Gitanjali Devi, Badal Bhattacharyya, Himangshu Mishra and DhrubaJyotiNath.	Rearing of two entomopathogenic nematodes, <i>Heterorhabditisbacteriophora</i> and <i>Steinernema</i> sp. in termite (<i>Odontotermesobesus</i> Ramb)	<i>Applied Biological Research</i> 20 (1): 77-81	5.07	2018
NavanitaDeka, U. Barman and B. Bhattacharyya.	Farmers' Attitudes towards Group Approach on Management of White Grub (<i>Lepidiotamansueta</i>)	<i>Int. J Curr. Microbiol. App. Sci.</i> 7(3): 465-471	5.38	2018
Badal Bhattacharyya, SudhansuBhagawati, Himangshu Mishra, DhanalakhiGogoi, Khanin Pathak, SnigdhaBhattacharjee and ShimantaniBorkotoki.	Evaluation of some granular insecticides against white grub, <i>Lepidiotamasueta</i> B. in potato (<i>Solanumtuberosum</i> L.).	<i>Journal of Entomology and Zoology Studies.</i> 5 (5): 1441-1444.	5.53	2017
Bithika Phukan, Sahidur Rahman and Kapil Kumar Bhuyan .	Effects of botanicals and acaricides on management of <i>Tetranychus urticae</i> (Koch) in tomato.	<i>Journal of Entomology and Zoology Studies</i> , 5 (3): 241-246.	5.53	2017
Bithika Phukan, Sahidur Rahman and Kapil Kumar Bhuyan	Evaluation of certain botanicals and acaricides on management of <i>Tetranychus cinnabarinus</i> in Rose	<i>International Journal of Chemical Studies</i> , 5(3): 153-157	5.31	2017
Tye,R. R. Deka, M. K., Rahman, A. and Bathari, M.	Effect of electromagnetic radiation of cell phone tower on foraging behaviour of Asiatic honey bee, <i>Apis cerana</i> F, (Hymenoptera: Apidae).	<i>Journal of Entomology and Zoology Studies</i> , 5(3),1527-1529.	5.53	2017
Bhuyan, K. K., Saikia, G. K., Deka, M. K.,	Evaluation of indigenous biopesticides against Red	<i>Journal of Entomology and Zoology</i>	5.53	2017

Phukan B. and Barua, S. C.	Spider Mite, <i>Oligonychus coffeae</i> (Nietner) in tea.	<i>Studies</i> , 5(2), 731-735		
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Bhuyan, K. K., Saikia, G. K., Deka, M. K., Phukan B. and Barua, S. C.	Effect of certain indigenous extracts against tea mosquito bug, <i>Helopeltis theivora</i> (Waterhouse) (Hemiptera: Miridae) in tea.	<i>International Journal of Chemical Studies</i> , 5(3), 158-162	5.53	2017
Bhuyan, K. K., Saikia, G. K., Deka, M. K., Phukan B. and Barua, S. C.	Traditional tea pest management practices adopted by small tea growers of Assam.	<i>Journal of Entomology and Zoology Studies</i> , 5(2), 731-735	5.53	2017
Bhuyan, K. K., Saikia, G. K., Deka, M. K., Phukan B. and Barua, S. C.	Evaluation of indigenous biopesticides against Red Spider Mite, <i>Oligonychus coffeae</i> (Nietner) in tea.	<i>Journal of Entomology and Zoology Studies</i> , 5(2), 731-735	5.53	2017
Bhuyan, K. K., Saikia, G. K., Deka, M. K., Phukan B. and Barua, S. C.	Evaluation of indigenous biopesticides against Red Spider Mite, <i>Oligonychus coffeae</i> (Nietner) in tea.	<i>Journal of Entomology and Zoology Studies</i> , 5(2), 731-735	5.53	2017
Das, P. , Kalita, S., and Hazarika, L. K	Tea clonal preference by <i>Helopeltis theivora</i> (Hemiptera: Miridae)	<i>Journal of Entomology and Zoology Studies</i> . 5(6): 97-103	5.53	2017
C. Muraching Das, Purnima , Satish K. Hazarika, L. K	Bioefficacy of <i>Ocimum sanctum</i> L. (Lamiaceae) leaf extract against pulse beetle (<i>Callosobruchus chinensis</i> L.) (Coleoptera : bruchidae) in stored green gram (<i>Vigna radiate</i> L.)	<i>Entomol. and Zool. Stud.</i> 5(4): 586-590	5.53	2017
C. Muraching , Das, Purnima , Satish K. Hazarika, L. K	Bioefficacy of Bael (<i>Aegle marmelos</i>) Correa (Rutaceae) leaf extract against pulse beetle (<i>Callosobruchus chinensis</i> L. in stored green gram (<i>Vigna radiate</i> L.).	<i>Int. J. Curr. Microbiol. App.Sci.</i> 6 (8) : 2067-2075	5.38	2017
Das, Purnima , Hazarika, L. K, Das Karishma	<i>Beauveria bassiana</i> : a potential entomopathogenic fungi from Yellow Tail Tussock	<i>Annals of Plant Protection Sciences</i> 25 (2): 416-449	4.82	2017

	moth and Black fly			
Mudoi, Abhilisa Das, Purnima , Hazarika, L. K.;	Pathogenicity of <i>Beauveria bassiana</i> (Bals.) Vuill. (KR855715) against <i>Periplaneta americana</i> (L.).	<i>J. Entomol. and Zool. Stud.</i> 5(4): 1516-1519	5.53	2017
Hazarika, L. K.; Das, Purnima .; Mohanasundaram, A.; Saikia, R. and Islam, A. N.	A comprehensive study on pest complex of <i>Flemingia</i> spp. from Jorhat, Assam.	<i>J. Entomol. and Zool. Stud.</i> 5 (4): 506-511	5.53	2017
Nath, R. K. and Saikia, D. K.	Population dynamics of sugarcane plassey borer, <i>Chilo tumidicostalis</i> , Hempson (Lepidoptera: Pyralidae).	<i>Int. J. Curr. Microbiol. App. Sci.</i> 7(3):1397-1405	5.3	2018
Borah, N and Saikia, D. K.	Seasonal incidence of major insect pests of brinjal & their natural enemies	<i>Indian Journal of Entomology.</i> 79(4): 449-455.	5.89	2017
Mili, P., Devee, A. and Saikia, D. K.	Diversity of carabids in <i>Gerbera</i> and <i>Gladiolus</i> crops of Jorhat, Assam	<i>Journal of Entomology and Zoology Studies.</i> 6(2): 116-124	5.53	2018
Borkakati, R. N., Saikia, D. K., and Buragohain, P.	Natural enemy fauna of agri-horti ecosystem of Assam	<i>Indian Journal of Entomology.</i> (Accepted)	5.89	2018
Daizy Sarma D. K. Saikia and Rudra N. Borkakati	Impact of Habitat Manipulation on Major Pest of Cabbage (<i>Brassica oleracea</i> Var. Capitata L.)	<i>Indian Journal of Entomology.</i> (Accepted).	5.89	2018
A Mallick and R K Borah	Evaluation of local bamboo traps against rodents in rice	<i>Indian J. Ent.</i> 79 (4): 522-524.	5.89	2017
R Thangjam, R. K. Borah & D K Saikia	Pest complex of king chilli, <i>Capsicum chinense</i> Jacquin in Assam, North East India	<i>The Bioscan</i> 12(4):2069-2073	5.26	2017
Rupashree Das, and AnjumoniDevee	Morphotaxonomy of five species of leafhopper (Cicadellidae: Hemiptera) from rice ecosystem of Jorhat, Assam	<i>Journal of Entomology and Zoology studies,</i> Vol.5(3) 1803-1808	5.53	2017
PhunuMili, Anjumoni Devee and Dilip Kumar Saikia	Diversity of carabids in <i>Gerbera</i> and <i>Gladiolus</i> crops of Jorhat, Assam	<i>Journal of Entomology and Zoology studies,</i> Vol.6(2) 116-124	5.53	2018

Ataur Rahman, Pallabi Bharali, Liza Borah, Manha Bathari and Ritu Ranjan Taye	Post embryonic development of <i>Galleria mellonella</i> L. and its management strategy	<i>Journal of Entomology and Zoology studies</i> 5(3): 1523-1526	5.53	2017
Ritu Ranjan Taye, Mukul Kumar Deka, Ataur Rahman and Manha Bathari	Effect of electromagnetic radiation of cell phone tower on foraging behaviour of Asiatic honey bee, <i>Apis cerana</i> F. (Hymenoptera: Apidae)	<i>Journal of Entomology and Zoology studies</i> 5(3): 1527-1529	5.53	2017
A Rahman, M Bathari, P Borah, RR Taye and P Patgiri	Diversity of insect species along with their host in Assam Agricultural University, Jorhat	<i>Journal of Entomology and Zoology studies</i> 5(6): 2307-2312	5.53	2017
Liza Borah, Ataur Rahman, Pooza Borah, Mukul Kumar Deka	Mating behavior of greater wax moth, <i>Galleria mellonella</i> L. (Lepidoptera: Pyralidae) in Northeast Himalayas	<i>Journal experimental Zoology India</i> , 20(2) 801-804	5.51	2017

Saikia, M ; Ghosh, K. and Peigler, R. S.	Wild sericigenous insect diversity of Hoollongapar Gibbon Sanctuary, Jorhat, Assam.	<i>Journal of Entomology and Zoology Studies</i> , Vol.5(2), pp.973-978	5.53	2017
Ghosh, K. and Saikia, M.	A comparative study on awareness about sericulture among Assamese and English medium secondary school students in Jorhat district of Assam, India	<i>Journal of Entomology and Zoology Studies</i> , Vol.5(4), pp.520-523	5.53	2017
Phukan, P.J.; Dutta, L.C. and Singha, Th. A.	Incidence and intensity of Attack of <i>Ariadne merione</i> C. infesting castor – a primary food plant of eri silkworm in the agro-ecosystem of Assam.	<i>Journal of Experimental Zoology</i> , India, Vol.21 (1), pp.311-314	5.51	2018
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Islam, A.N., Khanikar, P. G., Deka, R. L. and	Impact of weather parameters on winter rice productivity in the upper Brahmaputra valley	<i>Journal of Agrometeorology</i> , 19 (Special Issue-	6.40	2017

Goswami, B.	zone of Assam	AGMET 2016): 75-79		
Barua, I.C., Deka, J., Devi, M., Deka, R. L. and Moran, J.	Weeds as emerging threat to biodiversity: a consequence of spread of <i>Ludwigia peruviana</i> in Dhansiri and Kopili catchment areas of Assam, North East India.	<i>Current Science</i> , 112 (9), 1904-1914	6.84	2017
Medhi, K., Neog, P., Goswami, B., Deka, R.L., Kurmi, K., Sarmah, K. and Khanikar, P.G.	Evaluation of CERES-Rice model for Upper Brahmaputra Valley zone of Assam.	<i>Journal of Agrometeorology</i> , 19 (3), 270-273	6.40	2017
Talukdar, D., Deka, R.L. and Dey, U.	Influence of weather factors on incidence of Alternaria blight of rapeseed under the agro-climate of Upper Brahmaputra Valley of Assam	<i>Journal of Agrometeorology</i> , 19 (3), 277-279	6.40	2017
Goswami, B., Hussain, R., Vijayakumar, P., Saikia, U.S. and Banarjee, S	Effects of climate change on potato at Jorhat, Assam using SUBSTOR- Potato model.	<i>Journal of Agrometeorology</i> , 20 (2): Accepted	6.40	2018

D. Hazarika, Dipanjan Kashyap, P. C. Bhuyan, K. D. Singha and E. Phukan	Effective utilization of pond area for livelihood security in Central Brahmaputra Valley Zone of Assam	<i>Journal of International Academic Research for Multidisciplinary</i> , 5(3), 80-86.	7.9	April, 2017
Teronpi, L. and Bharali, B.	“Approching for Enhancing Nitrogen use Efficiency in some Upland Rice (<i>Oryza sativa</i> L.) Genotype under Water Stress Condition”	International Journal of Environmental Agricultural Research (IJOEAR), Vol. 4 Page 17-27.	75.40 (Index Copernicus)(2016:)	, 1 st January 2018
Timung, B., Bharali, B. And Konwar, M J.	Physiological Parameters of some Upland Rice (<i>Oryza Sativa</i> , L) Genotypes under Moisture Stress Condition.	Journal of Phemacognosy and phytochemistry 6(6): 1636-1640	5.21	Oct, 2017.
Bhaba Prashad Kalita*, Prabin Kumar Gogoi, Abhijit	Effect of Integrated Nutrient Management and Different	<i>International Journal of Current</i>	5.3	2018

Sarma, Iswar Chandra Barua and Borsha Neog	Plant Spacing on Tulsi	<i>Microbiology and Applied Sciences</i> ISSN: 2319-7706 Volume 7 Number 02 (2018) :1352-1361		
Dweepjyoti Sarkar*, B.K. Saud, P. Mahanta, P. Kalita, B. Neog and Madhumita C. Talukdar	Response of Pinching and Gibberellic Acid on Growth and Physiological Characteristics of African Marigold	<i>International Journal of Current Microbiology and Applied Sciences</i> ISSN: 2319-7706 Volume 7 Number 03-1666-1672	5.3	2018
Talukdar P, Rathi S, Pathak K, Chetia S K and Sarma R N.	Population structure and marker-trait association in indigenous aromatic rice.	<i>Rice Science</i> , 24(3) : 145-154.	5.33	May 2017
B.H.Choudhury, A.M.Baruah and P. Das.	Minerals and Arsenic composition of twenty five indigenous leafy vegetables of Jorhat district of Assam state india.	<i>Asian Journal of Chemistry</i> . Vol. 29(10): 2138-2142.	5.00	2017
B.H.Choudhury, A.M.Baruah and S. Baishya	Phytochemical and Carbohydrates content of some Indigenous Leafy Vegetables of Jorhat District, India	<i>Asian Journal of Chemistry</i> . Vol. 30(6): 1252-1256	5.00	2018
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Choudhury, B. H. ; Baruah, A. M. ; Sarmah, T. C. and Baishya, S.	Nutritional and antinutritional composition of twenty five indigenous leafy vegetables of of Jorhat district of Assam state, India,	<i>Asian J. Chem.</i> , 29(1) , 65-68.	5.00	2017
Bharali, P.; Gamo, Y.; Das, A. K.; Tag, H.; Baruah, A. M. and Kakati, D.	Phytochemical and biochemical study of four legume plants with detergent and anti-lice properties from the Eastern Himalayan region of India.	<i>Current Sci.</i> , 113 (7), 1434-1439	6.97	2017
Rituraj Deb, L.C. Bora and P. Das	Microbial Bioformulations for Suppression of Major Insect Pests and Diseases and Enhanced Biochemical	<i>Int.J.Curr.Microbiol.A pp.Sci</i> 6(5) : 1872-1879	5.38	2017

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Kritideepan Sarmah, Priyanka Das, Archana Singha Dutta, Robin Chandra Bodo, Tarun Chandra Sarmah.	Evaluation of tapioca starch films for biodegradability and food storing.	<i>Asian Journal of Chemistry</i> . Vol. 29 (1): 157-160.	5.00	2017
Borah, A. and Hazarika, K.	Simulation and validation of a suitable model for thin layer drying of ginger rhizomes in an induced draft dryer.	International Journal of Green Energy. 14(13): 1150-1155	7.60	2017
Borah, A. , Sethi, L.N. , Sarkar, S. and Hazarika, K	Energy utilization efficiency and entrepreneurial potential of a solar-biomass integrated drying system.	Journal of Agricultural Engineering. 54 (2): 40-49	5.59	2017
Jamini Saikia, Luchon Saikia, Deepa Borbora Phookan and Dhruba Jyoti Nath	Effect of Bio fertilizer consortium on yield, quality and soil health of French bean (<i>Phaseolus vulgaris</i> L)	Legume Research an International Journal. Online ISSN: 0976-0571	6.12	2017
Purbashree Hazarika, Deepa Borbora Phookan and Sapna Barua	Performance of cauliflower as influences by organic inputs and microbial consortium	Indian Journal of Horticulture. 74(1) March 2017:75-79	6.13	2017
J.Saikia, D.B. Phookan and P. Talukdar	Studies on genetic variability in Ivy Gourd (<i>Coccinia grandis</i> L. Voigt)	Indian Journal of Horticulture. 74(1) March 2017:139-141	6.13	2017

Subhankar saha, Madhumita Choudhury Talukdar and Deepa Borbora Phookan	Effect of growing media and depth on Rooftop Cultivation of Gerbera (<i>Gerbera jamesonii</i> Bol)	Int. J. Current Microbiol. App. Sci 7(5):189-193	5.38	2018
S. Saha, M.C. Talukdar, N. Bora and P. Kalita	Standardization of growing media and its depth for Rooftop gardening of gerbera in assam	International Journal of Asian Academic Research Associates	7.5	2017
Nishant Barik, Deepa Borbora Phookan, Vikash Kumar, Thanuram Teron Millik and Dhruba Jyoti Nath	Organic cultivation of Ridge Gourd (<i>Luffa acutangula</i> Roxb)	Current Journal of applied Science and Technology	5.32	2018

Vikash Kumar, J. Saikia and D. J. Nath	Effect of integrated nutrient management on growth, yield and quality of Okra (<i>Abelmoschus esculentus</i>)	International Journal of chemical Studies Vol:5(5) Pp:2001-2003	5.31	2017
Mansuri, M; Sarmah, D. K and Saikia, A .	Antioxidant properties of some common oyster mushrooms grown in North East India	Indian Phytopathology 7(1):98-103	5.90	2017
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Dutta, Marami, Karmakar, R. M., Borkakati, K. and Deka Bipul	Characterization and Classification of Soils of Tipukjan Watershed of the Upper Brahmaputra Valley of Assam	<i>Journal of the Indian Society of Soil Science</i> 65 (4), 349-359	5.23	2017
Dutta, Namita, Dutta, Samiron and Karmakar, R. M.	Characterization and classification of some alluvium derived soils under different land uses in Jorhat district of Assam	<i>Journal of the Indian Society of Soil Science</i> 65 (4), 360-368	5.23	2017
Jain, D., Sita D. S., Suman Sanadhya, S., Nath, D. J. & K. Khandelwal, K. S.	Molecular characterization and PCR-based screening of cry genes from <i>Bacillus thuringiensis</i> strains	3 Biotech 7:4	7.38 (in 2018 NAAS)	2017
Buragohain, S., Sarma, B., Nath, D. J., Gogoi, N., Meena, R. S. & Lal, R	Effect of 10 years of biofertiliser use on soil quality and rice yield on an Inceptisol in Assam, India	<i>Soil Research</i>	7.61	2017
Pujari, D., Bhattacharyya, B., Mishra, H., Bhagawati, S., Nath D. J. & Medhi B. K.	Linking soil physico-chemical properties with the recent upsurge of <i>Lepidiotamansueta</i> (Coleoptera: Scarabaeidae) in sugarcane ecosystem of Majuli river island, Assam, India	Journal of Entomological Research, 42(1)19-26	5.05	2018
Devi, G., Bhattacharyya, B., Mishra, H. & Nath, D. J.	Rearing of two entomopathogenic nematodes, <i>Heterorhabditis bacteriophora</i> Poinar and <i>Steinernema</i> sp. in termite (<i>Odontotermes Obesus</i> Ramb.)	Applied Biological Research 20(1), 77-81	5.07	2018
Patra, A., Sharma, V. K. Purakayastha, T. J., Barman, M.,	Effect of Integrated Nutrient Management in Rice on Nitrogen Availability, L-	International Journal of Current Microbiology and	5.38	2017

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Chutia,R, Bhagawati, P.C. &Nath D.J.	Effect of Biofertilizer and Integrated Nutrient Management on Growth of Potato and Soil Microbial Activity	International Journal of Current Microbiology and Applied Sciences 6(12): 355-365	5.38	2017
Barua, Rashmi; Medhi, B.K.; Patgiri, D.K.; Bhattacharyya, D. and Deka, C.R.	Soil organic carbon stock in agricultural land of Jorhat district of Assam.	<i>Journal of Soil and Water Conservation</i> , 16(1): 25-31	5.08	2017
Saikia, M; Bhattacharyya, D. ;Patgiri, D.K.; Thakuria, R.K., Deka, P. and Borah, N.	). Physical characteristics of puddle rice soils as influenced by agro-ecological and and situations.	<i>Journal of Soil and Water Conservation</i> 16(3): 221-227	5.08	2017
PrakshiptaBoruah, A. Sarma and Das, K.N.	Water Saving Strategy in Rice by Alternate Wetting and Drying Technology.	<i>Int.J.Curr.Microbiol.</i> <i>App.Sci.</i> 7(03): 1333- 1340.	5.38	2018
Gunajit Goswami, Priyadarshini Deka, Pompi Das, Sudipta Sankar Bora, Ramkrishna Samanta, Robin Chandra Boro, Madhumita Barooah	Diversity and functional properties of acid-tolerant bacteria isolated from tea plantation soil of Assam.	3 Biotech. 7:229.	7.36	2017
Indrani K. Baruah, Debashis Panda, Jagadale M.V, Deba Jit Das, Sumita Acharjee, Priyabrata Sen, Bidyut Kumar Sarmah	Bruchid egg induced transcript dynamics in developing seeds of black gram (<i>Vigna mungo</i>).	PLoS ONE 12 (4): e0176337.	8.81	2017
M Rabha, S Sharma, S Acharjee and B K Sarmah	Isolation and Characterization of <i>B. thuringiensis</i> strains native to North East Region of India.	3Biotech.	7.36	2017
Sharma P, Bora LC, Devi K, Acharjee S, Nath PD	isolation and characterization of native fluorescent <i>pseudomonas</i> from rice fields of Assam.	<i>Applied Biological Research</i> . [ACCEPTED]	5.07	2017
Verma RK, Chetia SK, Dey PC, Baruah AR, Modi MK.	Mapping of QTLs for Grain Yield and its Component Traits under Drought Stress in Elite Rice Variety of Assam, India.	<i>Int J Curr Microbiol</i> <i>Appl Sci.</i> ;6(6):1443- 1455.	5.38	2017
Sarma K, Roychoudhury S,	Molecular modeling and dynamics simulation analysis	<i>Comb Chem High Throughput Screen.</i>	6.95	2017 January

Bora SS, et al.	of KATNAL1 for identification of novel inhibitor of sperm maturation.			
Sarmah R, Modi MK, Begum SA.	ANN Based Features Selection Approach Using Hybrid GA-PSO for siRNA Design.	<i>Int J Comput Sci Inf Technol.</i> ;9(4):57.		2017
Dhanawantari L. Singha, Narendra Tuteja, Dimple Boro, Girindra Nath Hazarika, Salvinder Singh	Heterologous expression of <i>PDH47</i> confers drought tolerance in <i>indica</i> rice.	Plant Cell Tiss Organ Cult.	8.00	2017
Dhanawantari L. Singha, Narendra Tuteja, Dimple Boro, Girindra Nath Hazarika, Salvinder Singh	Heterologous expression of <i>PDH47</i> confers drought tolerance in <i>indica</i> rice.	<i>Plant Cell Tiss Organ Cult.</i> 130 (3):577-589.	8.00	(2017)
Sudipta Sankar Bora, Saurav Das, Jyoti Prasad Lahan, Madhumita Barooah	Isolation and partial characterization of cellulase free alkalo-thermophilic xylanase produced by <i>Bacillus flexus</i> .	Indian Journal of Biotechnology Vol 16, pp 395-402.	6.29	2017
<u>Adewoyin AG,</u> <u>Barooah M</u> <u>Oloke JK,</u> <u>Bora SS</u>	Identification and physiological properties of a Nigerian strain of <i>Volvariella</i> sp. isolated from oil palm waste.	World Journal of Microbiology and Biotechnology 33(7)	7.66	2017
Madhusmita Borah Pompi Das Susanta Sarmah Pathak Robin Chandra Boro and Madhumita Barooah	Phosphate Solubilization by Endophytic Bacteria isolated from <i>Oryza sativa</i> .	Int.J.Curr.Microbiol. App.Sci 6(10): 2713-2721	5.38	2017
Mamoni Das, Madhumita Barooah , Diganta Goswami , Moloya Gogoi and Susanta Sarmah Pathak	Nutritional and Organoleptic Evaluation of Traditional Fruit Wines of North East Brewed from Nora Bagori (<i>Prunus domestica</i>) and Amlakhi (<i>Embilica officinalis</i>)	International Journal of Current Microbiology and Applied Sciences	5.38	2017
Assma Parveen Dibyajyoti Hazarika, R.Boro, M Barooah	A study on the diversity and habitat specificity of macrofungi of Assam, India.	International Journal of Current Microbiology and Applied Science Volume-6, Issue-12	5.38	2017
Mahanta, B. Choudhury, B.N and Hussain, T	Occurrence and distribution of plant parasitic nematodes in different Khasi mandarin	Journal of Global Biosciences. ISSN 2320-1355.	1.419 (impact factor)	2017

	(<i>Citrus reficulata</i> , Blanco) orchards of Tinsulia district of Assam. Journal of Global Biosciences. ISSN 2320-1355. Vol.6(6)	Vol.6(6)		
Gogoi, D., Mahanta, B. and Saikia, A.K	Interaction of <i>Meloidogyne incognita</i> and <i>Rhizoctonia solani</i> on French bean. Journal of Global Biosciences 6(6): 5050-5054	Journal of Global Biosciences ISSN-2320-1355 6(6): 5050-5054	1.419 (impact factor)	2017
Rimi Deuri, Prabhat Das, Debanand Das and B. N. Choudhury	Influence of Hosts on Morphology and Morphometry of <i>Meloidogyne incognita</i>	Indian Journal of Nematology 47(1):75-80	5.03	2017
Debanand Das, Kartik Baruah and Prabhat Das.	Reaction of Banana cultivars to Root -knot nematode, <i>Meloidogyne incognita</i>	Indian Journal of Nematology. 46(2) :201-203	5.03	2017

Year: 2018-19

Author(s)	Title	Journal Name, Volume, Page nos.	NAAS Score	Year of publication
Ranima Mishra, P.D. Nath, B. Raigond, R.C. Boro , Shankar HemantaGogoi and JutimalaPhookan	Purification of Potato Virus Y for Polyclonal Antisera Production and Assessment of Antisera Specificity through DAS-ELISA.	<i>Int. J. Curr. Microbiol. App. Sci.</i> 7(8): 1311-1316.	5.38	2018
Kamalakshi Devi, Kuntal Kumar Dey, Sanjay Singh, Surajit Kumar Mishra, Mahendra Kumar Modi, Priyabrata Sen	Identification and validation of plant miRNA from NGS data—an experimental approach	<i>Briefings in Functional Genomics</i> , ely034, https://doi.org/10.1093/bfpgp/ely034	9.78	2018
Kumar, D., Das, P.K. & Sarmah, B.K.	Reference gene validation for normalization of RT-qPCR assay associated with germination and survival of rice under hypoxic condition	<i>J Appl Genetics</i> (2018) 59: 419.	7.66	2018
D. Kumar, P.K. Das & B.K. Sarmah	Reference gene validation for normalization of RT-	<i>Journal of Applied Genetics</i> .59(4),419	7.76	2018

	Qpcr assay associated with germination and survival of rice under hypoxic condition.	-430.		
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<u>Seon-Kap Hwang</u> , <u>Salvinder Singh</u> , <u>Jitendra Maharana</u> , <u>Samhita Kalita</u> , <u>AytugTuncel</u> , <u>TanmayeeRath</u> , <u>Debashish Panda</u> , <u>Mahendra Kumar Modi</u> and <u>Thomas W. Okita</u>	Mechanism Underlying Heat Stability of the Rice Endosperm Cytosolic ADP-Glucose Pyrophosphorylase	Front. Plant Sci., 11 February 2019	9.68	2019
Dhananjay Kumar, Bidyut Kumar Sarmah, and Prasanta Kumar Das	Ethylene mediates repression of anthocyanin accumulation in black rice pericarps in the absence of light	<u>Journal of Plant Physiology</u> <u>Volume 236</u> , May 2019, Pages 34-3	8.83	2019
Baldodiya, Gajendra Mohan Baruah, Geetanjali Borah, Basanta Kumar Modi, Mahendra Kumar Nath, Palash Deb	Molecular characterization and sequence analyses of Banana bunchy top virus infecting banana cultivar Jahaji (Dwarf Cavendish) in Assam, India	3 Biotech Volume 9 (3), 110	7.5	2019
Rabha M, Acharjee S and Sarmah BK.	Multilocus sequence typing and VIP gene profile of locally isolated B. thuringiensis native to Northeast India of Assam.	World J MicrobBiot, 34:103	8.10	2018
Meitei AL, Bhattacharjee M, Dhar S, Chowdhury N, Sharma R, Acharjee S and Sarmah BK	Activity of defense related enzymes and gene expression in pigeon pea (Cajanuscajan) due to feeding of Helicoverpaarmigera larva	J Plant Interact, 13:1, 231-238,	7.66	2018
Saurav Das and MadhumitaBarooah	Characterization of siderophore	BMC Microbiology	8.83	2018

	producing arsenic-resistant Staphylococcus sp. Strain TA6 isolated from contaminated groundwater of Jorhat, Assam and its possible role in arsenic geocycle	18(1):104		
Kalita R, Modi MK and Sen P	RNAi mediated silencing of 3-hydroxy-3-methylglutaryl-CoA reductases (HMGR)	Centella asiatica L Gene Reports, 11 : 52-57		2018
Raktim Ranjan Borua & Dr. Nivedita Deka	Information and communication technology (ICT) in farm Management decision: status of Jorhat district	<i>International Journal of Marketing and Technology. Volume 9 Issue 4</i>	6.559 (impact factor)	2019 (April)
Borsha Neog, J. Hazarika, D. Das Borah	Structural break time in some variables related to rice production in Assam.	Journal of the Indian society of Agricultural Statistics.	5.46	2019
Raju Prasad Paswan, Shahin Ara Begum & L. Hemochandran	GA-ANN Hybrid Model for Prediction of Area and Crop Production	International Journal of Agricultural & Statistical Sciences	5.13	2019
Smrita Barua	Modelling and Forecasting of rice production in Assam using time series model	Journal of Applied Probability	6.83	2019
Raju Prasad Paswan, Shahin Ara Begum & L. Hemochandran	GA-ANN Hybrid Model for Prediction of Area and Crop Production.	<i>Int. J. Agricult. Stat. Sci.</i> Vol. 14, Supplement, pp 15-26, 2018	5.13	2019
Gogoi AK, Madhupriya, Kalita MK, Rao GP and Nath PD	Characterization of sugarcane grassy shoot phytoplasma and its impact on growth, yield and juice quality of old growing sugarcane varieties in North East Regions of India	<i>International sugar journal</i> Volume no. 120 Issue no. 1436:630-638	6.07	2019

Dipanjali Baruati, Madhumita Choudhury Talukdar, and Vikash Kumar	Effect of organic manures and biofertilizers on growth and yield of gladiolus (<i>Gladiolus grandiflorus</i> L.)	International journal of chemical studies, 2018; 6(5): 2529- 2532	5.31	2018
Dipanjali Baruati1, Madhumita Choudhury Talukdar1, Dhrubajyoti Nath1 and Tara Bhuyan	Effect of Organic Input Application on Soil Microbial and Biochemical Properties on Gladiolus (<i>Gladiolus grandiflorus</i> L.) under Jorhat Condition	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 7 Number 10 (2018),	5.38	2018
Subhankar Saha, Madhumita Choudhury Talukdar and Deepa Borbora Phookan	Effect of Media and Depth on Rooftop cultivation of gerbera (<i>Gerbera jamesonii</i> <i>Bolus</i>) cv. Red Gem	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 7 Number 5 (2018)	5.38	2018
Dweepjyoti Sarkar, B.K.Saud, P.Mahanta, P.Kalita, B.Neog and Madhumita Choudhury Talukdar	Response of pinching and gibberelic acid on growth and physiological characteristics of African Marigold	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 7 Number 3 (2018)	5.38	2018
Mr. Nishant Barik, Deepa Borbora Phookan, Vikash Kumar, Thanuram Teron Millik and Dhruba Jyoti Nath	Organic cultivation of Ridge gourd(<i>Luffa acutangula</i> Roxb)	Current Journal of applied Science and Technology.26(4):1 -6,	5.32	2018
<u>Kureshi,</u> <u>Azazahemad A.</u> ¹ , <u>Dholakiya,</u> <u>Chirag</u> ³ ; <u>Hussain,</u> <u>Tabaruk</u> ⁴ ; <u>Mirgal,</u> <u>Amit</u> ⁵ ; <u>Salvi,</u> <u>Siddhesh P.</u> ⁶ ; <u>Barua,</u> <u>Pritam</u> <u>C.</u> ⁷ ; <u>Talukdar,</u> <u>Madhumita</u> ⁷ ; <u>Beena,</u> <u>Chekunnath</u> ⁸ ; <u>Kar,</u> <u>Ashish</u> ⁹ ; <u>Zachariah,</u> <u>Thondiath</u> <u>John</u> ¹⁰ ; <u>Kumari,</u> <u>Premlata</u> ¹ ; <u>Dhanani,</u>	Simultaneous Identification and Quantification of Three Xanthenes and Two Polyisoprenylated Benzophenones in Eight Indian <i>Garcinia</i> Species Using a Validated UHPLC- PDA Method	Journal of AOAC International	7.5	2019

<u>Tushar²; Singh, Raghuraj²; Manivel, Ponnuchamy²; Kumar, Satyanshu²</u>				
Bora, Papori; Das, Pranati; Bhattacharyya, Ruma and Saikia, Ananta	Effect of processing on the phytochemical content and antioxidant capacity of proso millet (<i>Panicum miliaceum</i> L.) milled fractions	<i>International Journal of Chemical Studies</i> , 6(4): 18-22	5.31	2018
Ujjal Baruah; Kaushik Das; Utpal Kotoky and Sonbeer Chack	Allelopathic Effect of <i>Jatropha (Jatropha curcas)</i> on Chilli (<i>Capsicum annum</i>) and Green Gram (<i>Vigna radiata</i>)	<i>Int. J. of Current Microbiology and Applied Sciences</i> . Vol 7 (6): 968-985	5.38	2018
Ujjal Baruah; Kaushik Das; Utpal Kotoky	Effect of different doses of <i>Jatropha(Jatropha curcas)</i> leaf extract on yield attributes of chilli(<i>Capsicum annum</i>) and Green Gram (<i>Vigna radiata</i>)	<i>Multilogic in Science</i> . VIII, Issue XXVI, July, 2018. Pp 134-137.	5.20	2018
Porismita Dutta*, Utpal Kotoky and Kaushik Das	Effect of Integrated Plant Nutrient Management on Leaf N, P, K of Guava(<i>Psidium guajava</i> L.) cv. Allahabad Safeda	<i>Int.J.Curr.Microbiol.App.Sci</i> 7 (9)	5.38	2018
Divyashree Saikia and Utpal Kotoky	Study the Efficacy of Chemicals on the Quality Parameters of Guava (<i>Psidium guajava</i> L) cv Lucknow-49	<i>Int. Jr. of Current Microbiol, App. Sci</i> 8(01): 1436-1445	5.38	2019

Bhattacharjya, Dibyarishi; Bharadwaj, Krishna; Sarma, Abhijit; Konwar, Kakali; Sarmah, Kushal; Das, J.C. and Shandilya, Uddipana	Productivity and Profitability of Direct Seeded Early <i>Ahu</i> Rice under Medium Land Situation.	<i>International Journal of Current Microbiology and Applied Sciences</i> , 8 (3) : 269-277	5.38	2019
Bhattacharjya, Dibyarishi;	Water productivity and nutrient uptake of direct	<i>International Journal of</i>	5.31	2019

Bharadwaj, Krishna; Sarma, Abhijit; Konwar, Kakali; Sarmah, Kushal; Das, J.C. and Shandilya, Uddipana	seeded early <i>Ahu</i> rice under medium land situation	<i>Chemical Studies</i> . 7(2): 2113-2117		
Borkakati, RN and Saikia DK	Efficacy of <i>Beauveria bassaiana</i> against <i>Helopeltis theivora</i> in tea.	<i>Journal of Entomology and Zoology studies</i> 7(1): 52-53	-5.53	2019
Phukon M. and Borah R.K.	Species composition of field rodents in rice-vegetable cropping system at upper Brahmaputra valley zone, Assam.	<i>Journal of Entomology and Zoology Studies</i> 7(1) : 961-969	5.53-	2019
Devee, A.; Arvanity, K. and Perdikis, D	Intraguild predation among three aphidophagous predators	Bulletin of Insectology,71(1),11-19	7.09	2018
Bhattacharyya, B., Choudhury, B; Das, P.; Dutta, S.K.; Bhagawati, S. and Pathak, K	Nutritional composition of five soil dwelling scarab beetles(Coleoptera: Scarabidae) of Assam	The Coleopterists Bulletin, 72(2),339–346	6.63	2018
Saikia, M.and Ghosh, K.	Involvement and contribution of women in eri culture activities in Jorhat district of Assam	<i>Journal of Entomology and Zoology Studies</i> 6(6):391-395	5.53	2018
Saikia, M.and Hazarika, L.K.	Food consumption and utilization pattern of fifth instar muga silkworm <i>Antheraea assamensis</i> Helfer (Lepidoptera : Saturniidae) reared on twigs of Som (<i>Persea bombycina</i> King)	<i>Journal of Entomology and Zoology Studies</i> 7(2):529-532	5.53	2019

Annapurna, M., Bhagawati, B., and Kurulkar, U	<i>In-vitro</i> Efficacy of Native Fungal Bioagents against <i>Meloidogyne incognita</i>	Int.J.Curr.Microbio l.App.Sci (2018) 7(11): 396-410	5.38	2018
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Kurulkar , Uday, B. Bhagawati and P.P. Neog	Biological Control of <i>Meloidogyne incognita</i> by <i>Trichoderma harzianum</i>	<i>Int.J.Curr.Microbio l.App.Sci</i> 8(2): 2176-2188	5.38	2019
Bharali, A., Bhagawati, B. Kurulkar, U	Nematicidal Toxicity of Native Antagonists against <i>Meloidogyne incognita</i>	<i>Int.J.Curr.Microbio l.App.Sci</i> 8(2): 1385-1398	5.38	2019
Bharali, A., Bhagawati, B. Kurulkar, U	Bio-efficacy of Native Bioagents and Biofertilizers for the Management of Root-knot Nematode <i>Meloidogyne incognita</i> Infecting Black Gram <i>Vigna mungo</i>	<i>Int.J.Curr.Microbio l.App.Sci</i> (2019) 8(2): 1484-1501	5.38	2019
Gogoi D., Mahanta B., Saikia A.K	Interaction of <i>Meloidogyne incognita</i> and <i>Rhizoctonia solani</i> on French Bean	<i>Indian Journal of Nematology</i> . 48(1): 113-129	5.03	2018
Borah A., Baruah A. and Gogoi D.	Management of <i>Meloidogyne incognita</i> and <i>Rhizoctonia solani</i> Disease Complex with Fungal Antagonist in Tea Seedling	<i>Indian J. Nematol.</i> 48(1):30-35	5.03	2018
Mohanty, S and Karmakar, R. M.	Forms of iron in clay fraction of paddy and associated non-paddy soils of Assam	<i>Journal of Pharmacognosy and Phytochemistry</i> ,2018; 7(6): 2677-2682	5.21	2018-19
Ahmed, P., Saikia, M., Pathak, K., Dutta, S and Sarmah A.C.	Effect of Microclimatic Regimes and Nitrogen Management on Growth and Yield of Direct Seeded Rice (<i>Oriza sativa</i> L.) under Rainfed Condition	<i>International Journal of Current Microbiology and Applied Sciences</i> Volume 8, Number 02, pp: 1351-1358	5.38	2019
Bhuyan S, Kandali, G.G., Deka,K., Karmakar, R.M., Choudhury, M., & Borah, K.	Impact of organic and conventional tea cultivation practices on soil health.	<i>International Journal of chemical studies</i> ,3,502-508	5.31	2018
Mondal, S.C., Sarma, B., Farooq, M., Nath,	Cadmium Bioavailability in Acidic Soils under Bean	<i>International Journal of</i>	8.04	2019

D.J. and Gogoi, N	Cultivation: Role of Soil Additives.	<i>Environmental Science and Technology</i>		
Buragohain, S., Nath, D.J., Devi, Y. B., Bhattacharyya, B and Dutta, S.	Molecular characterization of potassium solubilizing bacteria from crop rhizosphere of the North Eastern Region of India.	<i>Current Science</i> 114(12):2543-2548.	6.84	2018
Patra,A., Sharma,V.K., Purakayastha,T.J., Barman,M., Kumar, S., Chakraborty,D., kapil Chobhe, A., and Nath, D.J.	Long-term effect of integrated nutrient management on yield and nutrients uptake by rice (<i>Oryza sativa</i>) in acid soil.	<i>Indian Journal of Agricultural Sciences.</i> 88 (4): 579–583.	6.22	2018
Saikia, J., Saikia,L., Phookan, D.B. and and Nath, D.J	Effect of biofertilizer consortium on yield, quality and soil health of French bean (<i>Phaseolus vulgaris</i> L.).	<i>Legume Research,</i> 41(5) 2018: 755-758.	6.12	2018

Ojah,I., Nath, D.J., Gayan, A and Buragohain, S .	Influence of Different Levels of Phosphorus on the Effectiveness of Arbuscular Mycorrhizae in Rice Rhizospher.	<i>International Journal of Current Microbiology and Applied Sciences</i> (2018) 7(7): 1076-1085.	5.38	2018-
Barik, N., Phookan, D.B., Kumar, V., Teron, T., Millik and Nath, D.J.	Organic cultivation of Ridge Gourd (<i>Luffa acutangula</i> Roxb)	<i>Current Journal of Applied Science and Technology.</i> 26(4), 1-6.	5.32	2018
Rajkhowa, D.J., Sarma, A.K., Bhattacharya, P.N. and Mahanta, K.	Bioconversion of agricultural waste and its efficient utilization in the hilly ecosystem of North East India.	<i>International Journal of Recycling of Organic Waste in Agriculture, Trends in Plant Science,</i> 22, 550–553	6.40	2019 (March)
Prarthana P. Hazarika, B.K. Medhi, R.K. Thakuria, D.K.	Characterization of Grey Water to Assess its Feasibility for Irrigation	<i>International Journal of Current Microbiology and Applied Sciences</i>	5.38	2018

Patgiri I and Kanku Deka		(2018) 7(10): 1056-1064		
Basumatary, A., Shangne, J. J., Das, K. N and Bhattacharyya, D	Impact of sulfur fertilization on distribution of sulfur fractions and use efficiency in blackgram in subtropical acidic soil of Assam, Indian.	<i>Journal of Plant Nutrition, Vol 41, Issue 11 page 1436-1443</i>	6.62	2018
Gogoi, A, Talukdar, M.C. Basumatary, A and Baruah, U.	Characterization and classification of the soils of Dorika watershed of Assam using GIS and remote sensing techniques.	<i>Journal of the Indian Society of Soil Science. 66(4):341-350</i>	5.23	2018
Gogoi I, A, Talukdar, M.C. Basumatary, A., Baruah, U and Deka, J	Soil Site Suitability Evaluation of Crops for Dorika Watershed of Assam	<i>International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 7 Number 10</i>	5.38	2018
Boruah, P Sarma, A and Das, K.N.	Water Saving Strategy in Rice by Alternate Wetting and Drying Technology	<i>International Journal of Current Microbiology and Applied Sciences, 7(3): 1333-1340</i>	5.3	2018
Prarthana P. Hazarika, B.K. Medhi, R.K. Thakuria, Kanku Deka, and R Borah	Characterization of Grey Water to Assess its Feasibility for Irrigation under different soil types and depths Authors: Prarthana P. Hazarika, B.K. Medhi, R.K. Thakuria, Kanku Deka, and R Borah	<i>Journal of Pharmacognosy and Phytochemistry 8(1): 587-592</i>	5.21	2019
Borgohain, L., Tamuly, D., Bora, N., Dutta, S., Nath, D. J., Thakuria, R., Borah, K and Bora, S. S.	Kinetics of nitrogen mineralization as influenced by liming and organic amendments: a laboratory study	<i>International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 volume 8 number 01 page no: 853-865</i>	5.38	2019
Haytham Senbill ^{1,2} , Lakshmi Kanta Hazarika ¹ , Aishwarya Baruah ³ , Deepak Kumar Borah ⁴ , Badal	Life cycle of the southern cattle tick, <i>Rhipicephalus (Boophilus) microplus</i> Canestrini 1888 (Acari : Ixodidae) under laboratory	Systematic and Applied Acarology, 23(6)1169-1179 (2018) and published in highly	7.93	2018

Bhattacharyya ¹ & Sahidur Rahman ¹	conditions	ranked and reknowned Journal in UK and Ireland with printing in USA		
MeghaRohilla, Priyanka Roy, Dhiren Chowdhury, Kishore Kumar Sharma, Prabal Saikia, Priyabrata Sen, Nagendra Kumar Singh and Tapan Kumar Mondal	<i>Bao Dhan</i> of Assam: organically grown indigenous rice slated to increase farmer's income.	Current Science. 116 (5): 706-708	6.84	2019
Mondal, S.C., Sarma, B., Farooq, M., Nath, D.J. and Gogoi, N.	Cadmium Bioavailability in Acidic Soils under Bean Cultivation: Role of Soil Additives.	Int. J. Environ. Sci. Technol.	8.04	2019
Buragohain, S., Nath, D.J., Devi, Y. B., Bhattacharyya, B and Dutta, S.	Molecular characterization of potassium solubilizing bacteria from crop rhizosphere of the North Eastern Region of India.	CurrSci 114(12):2543-2548	6.84	2018
Patra, A., Sharma, V.K., Purakayastha, T.J., Barman, M., Kumar, S., Chakraborty, D., KapilChobhe, A., and Nath, D.J.	Long-term effect of integrated nutrient management on yield and nutrients uptake by rice (<i>Oryza sativa</i>) in acid soil.	Indian Journal of Agricultural Sciences. 88 (4): 579-583.	6.22	2018
Saikia, J., Saikia, L., Phookan, D.B. and Nath, D.J.	Effect of biofertilizer consortium on yield, quality and soil health of French bean (<i>Phaseolus vulgaris</i> L.).	Legume Research, 41(5) 2018: 755-758	6.12	2018
Ojah, I., Nath, D.J., Gayan, A and Buragohain, S.	Influence of Different Levels of Phosphorus on the Effectiveness of Arbuscular Mycorrhizae in Rice Rhizosphere.	Int.J.Curr.Microbiol.App. Sci (2018) 7(7): 1076-1085.	5.38	2018
Barik, N., Phookan, D.B., Kumar, V., Teron, T., Millik and Nath, D.J.	Organic cultivation of Ridge Gourd (<i>Luffa acutangula</i> Roxb)	Current Journal of applied Science and Technology.	5.32	2018
Hazarika, P.P.; Medhi, B.K.; Thakuria, R.K.; Patgiri, D.K. and Deka, K.	Characterization of grey water to assess its feasibility for irrigation.	International Journal of Current Microbiology and applied sciences. 7(10) : 1056-1064	5.38	2018
Hazarika, P.P.; Medhi, B.K.; Thakuria, R.K.; Patgiri, D.K. and Deka, K.	Qualitative characterization of suitability assessment of residential grey water in terms of water quality index.	International Journal of Chemical Studies. 6(6) : 284-292	5.31	2018
Hazarika, P.P.; Medhi, B.K.; Thakuria, R.K.; Deka, K and Borah, R.	Characterization of grey water to assess its feasibility for irrigation under different soil types and depths.	Journal of Pharmacognosy and Phytochemistry. 8(1) : 587-592	5.21	2018
A. Basumatary, J. J. Shangne, K. N. Das & D. Bhattacharyya	Impact of sulfur fertilization on distribution of sulfur fractions and use efficiency in blackgram in subtropical acidic soil of Assam, Indian.	Journal of Plant Nutrition 41(11): 1436-1443	6.62	2018
A. Basumatary	Integrated sulphur management in rapeseed (<i>Brassica</i>	Journal of the Indian Society of soil	5.23	2018

	<i>campestris</i>)-blackgram (<i>Vigna mungo</i>) sequence in an Inceptisol of Assam	science.66(4):425-431		
Arunima Gogoi I, M.C. Talukdar, A. Basumatary, and U. Baruah	Characterization and classification of the soils of Dorika watershed of Assam using GIS and remote Sensing techniques.	Journal of the Indian Society of soil science.66(4):341-350	5.23	2018
Arunima Gogoi, M.C. Talukdar, A. Basumatary, U. Baruah and J. Deka	Soil Site Suitability Evaluation of Crops for Dorika Watershed of Assam	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 Volume 7 Number 10	5.38	2018
Sharmila Dutta Deka, Karuna Kanta Sharma, Nagen Bordoloi and Jutika Das	Organic crop production: An analysis of impact of shiviyog modality of agriculture on growth and yield of crops	Journal of Pharmacognosy and Phytochemistry 7(2): 1840-1846	5.21	2018
Kh. Levish Chongloi and K K Sharma	Quality attributes of pea and oat in an intercropping system in rice fallows as influenced by integrated nutrient management	Journal of Pharmacognosy and Phytochemistry 7(1S):1663-1667	5.21	2018
R. Srinivasan, Sita ram Kantwa, K. K. Sharma, M. Choudhury, M. Prasad and A. Radhakrishnan	Development and evaluation of phosphate solubilising microbial inoculants for fodder production in problem soils	Range Management and Agroforestry 39 (1): 77-86	6.43	2018
Barua C C, Patowary P, Dutta Roy J, Pathak D C, Bordoloi M J & Barua I. C.	Ameliorating effect of <i>Gnetum gnemon</i> L. on hypothalamic pituitary adrenal axis during acute and chronic stress in rats.	Indian Journal of Traditional Knowledge. 17(2): 240-246	7.06	2018
Kalita B P, Gogoi P K, Sarma A, Barua, I. C. & Neog B.	Effect of integrated nutrient management and different plant spacing on Tulsi	Intern. Journal of Current Microbiology and Applied Sciences. 7(2): 1352-1361	5.38	2018
Kaur, S., Barua, I. C., Kaur, T., Kaur, N., Kaul, A. & Bhullar, M. S.	Appearance of new weeds in Punjab.	Indian Journal Weed Sci. 50(1): 59-63	5.17	2018
Ezung K, Choudhary JK, Kurmi K, Moasunep N K.	Efficacy of Organically Managed Cropping System in Improvement of Soil Health in Ne Hill Region	Int. Journal Curr. Microbiol. App. Sci. 7 (9): 157-169.	5.38	2018
Gogoi, A., Kaldis, A., Dasgupta, I., Borah, B.K., Voloudakis, A.	Sense- and antisense-mediated resistance against <i>Sri Lankan cassava mosaic virus</i> (SLCMV) in <i>Nicotiana benthamiana</i> .	Biologia Plantarum (accepted for publication).	7.42	2019
Baldodiya, G.M., Devi, K., Borah, B.K., Nath, P.D., Modi, M.K.	Characterization and <i>in silico</i> proteomic analysis of C2 and C3 proteins of squash leaf curl china virus associated with pumpkin leaf curl disease in Assam, India	Acta Virologica (accepted for publication).	6.70	2019
Sahu, J., Panda, D., Baruah, G., Patar, L., Sen, P., Borah, B.K., Modi, M.K.	Revealing shared differential co-expression profiles in rice infected by virus from reoviridae and sequiviridae	Gene (accepted for publication).	8.50	2019

	group.			
Baldodiya, G.M., Baruah, G., Borah, B.K., Modi, M.K., Nath, P.D.	Molecular characterization and sequence analyses of Banana bunchy top virus infecting banana cultivar Jahaji (Dwarf Cavendish) in Assam	India. 3Biotech, 9: 110-120.	7.50	2019
Fatima Jaiba, Goswami Gunajit, Bora Sudipta Sankar, Pathak SushantaSarmah, Boro Robin Chandra and BarooahMadhumita.	“Doi”, a naturally fermented milk product of Assam containing indigenous <i>Lactobacillus</i> spp. with probiotic attributes.	Res. J. Biotech. 13 (7): 1-15.	6.00	2018
Ranima Mishra, P.D. Nath, B. Raigond, R.C. Boro, Shankar HemantaGogoi and JutimalaPhookan	Purification of Potato Virus Y for Polyclonal Antisera Production and Assessment of Antisera Specificity through DAS-ELISA.	Int. J. Curr. Microbiol. App. Sci. 7(8): 1311-1316	5.38	2018
Gunajit Goswami, Debashis Panda, RamkrishnaSamanta, Robin Chandra Boro, Mahendra Kumar Modi, Kamal MallaBujarbaruah&MadhumitaBarooah	<i>Bacillus megaterium</i> adapts to acid stress condition through a network of genes: Insight from a genome-wide transcriptome analysis.	Scientific Reports, 8:16105	10.12	2018
Priyadarshini Dek, Gunajit Goswami, Pompi Das, Trishnamoni Gautom, Naimisha Chowdhury, Robin Chandra Boro, MadhumitaBarooah	Bacterial exopolysaccharide promotes acid tolerance in <i>Bacillus amyloliquefaciens</i> and improves soil aggregation	Molecular Biology Reports	7.89	2019
Rohilla M, Roy P, Chowdhury D, Sharma KK, Saikia P, Sen P, Singh NK and Mondal TK	Bao Dhan of Assam : organically grown indigenous rice slated to increase farmers' income.	Current Science, 116 (5) : 706-708	6.88	2019
KshetrimayumSumita and Debanand Das	(). Morphological and morphometrical variations among the populations of root knot nematode(s) of Assam	International Journal of Current Microbiology and Applied Sciences. 7(7): 1701-1708	5.38	2018
KshetrimayumSumita and Debanand Das	Effect of temperature on penetration and multiplication of root knot nematode, <i>Meloidogyne incognita</i> on tomato.	International Journal of Current Microbiology and Applied Sciences. 7(7): 1709-1712.	5.38	2018
Debanand Das and Kartik Baruah	Reaction of banana cultivars against banana pseudostem borer and leaf and fruit scarring beetle.	Indian Journal of Entomology. 80. 1148. 10.5958/0974-8172.2018.00122.0.	5.89	2018
Debanand Das and Kartik Baruah	Management of banana leaf and fruit scarring beetle <i>Nodostomaviridipennis</i> Motsch in Assam.	Indian Journal of Entomology. 80. 703. 10.5958/0974-8172.2018.00226.2.	5.89	2018
Th. Sunita Devi and	Potentiality of ashes against	Indian Journal of	5.30	2018

Debanand Das	root-knot nematode (<i>Meloidogyne incognita</i>) in cucumber	Nematology 48(1): 46-50		
B. Bhagawati, B. N. Choudhury, DebanandDas and P. Das	Screening of blackgram (<i>Vigna mungo</i>) germplasms for resistance against root-knot nematode, <i>Meloidogyne incognita</i> race 2.	Indian Journal of Nematology 48(1):121-122	5.30	2018
DebbarmaMampi, Dutta Deka Sharmila and SarmaDebojit	Fingerprinting Rice Hybrids using Restorer Gene Linked SSR Markers	Res. J. Biotech13 (4)	6.00	2018
MampiDebbarma, Sharmila D Deka and DebojitSarma	Genetic purity test of hybrid rice (<i>Oryza sativa</i> L.) based on chemical test	International Journal of Chemical Studies; 6(1): 110-112	5.31	2018
MampiDebbarma, Sharmila D Deka and DebojitSarma	Identification Of Hybrid Rice (<i>Oryza sativa</i> L.) and Its Parental Lines Based On Morphological Characters	Bioscan 13(1):231-236	5.26	2018
Borkakati, R. N., Saikia, D. K., and Buragohain, P.	Natural enemy fauna of agri-horti ecosystem of Assam	Indian Journal of Entomology. 80(3): 658-661	5.89	2018
Borkakati, R. N. and Saikia, D. K.	Efficacy of <i>Beauveria bassiana</i> (Bals.) Vuill. Against <i>Helopeltistheivora</i> Waterhouse in tea	Journal of entomology and zoology studies. 7(1): 52-53	5.53	2019
Saikia, D. K. and Borkakati, R. N.	Efficacy of BIPM module against major insect pests of tomato	Journal of entomology and zoology studies. 7(1): 986-988	5.53	2019
Borkakati, R. N., Venkatesh MR and Saikia, D. K.	Insect pests of Brinjal and their natural enemies	Journal of entomology and zoology studies. 7(1): 932-937	5.53	2019
Borkakati, R. N., Saikia, D. K. and Ramanujam, B.	Evaluation of certain bio pesticides against sucking pests of BhutJalakia	Journal of Biological Control.32(3): 172-178	5.34	2019
MiliPhunu, DerveeAnjumoni and Saikia, D. K.	Carabid beetles collected from vegetable ecosystem	Journal of Pharmacognosy and Phytochemistry. 7(6): 1581-1590	5.21	2018
Taye, R.R., Deka, M.K., Borkataki, S., Panda, S. and Gogoi, J.	Effect of electromagnetic radiation of cell phone tower on development of Asiatic honeybee, <i>Apis cerana</i> F. (Hymenoptera, Apidae).	International Journal of Current Microbiology and Applied Sciences. 7(8): 4334-4339.	5.38	2018
Taye, R.R, Rahman, A. and Borkataki, S.	Molecular characterization of dwarf honey bees, <i>Apis florea</i> F. and <i>Apis andreniformis</i> Smith from north east Himalaya.	Journal of Pharmacognosy and Phytochemistry. 7(6), 285-289	5.21	2018
Lalrammawia, Khanikor, D.P., Singha, A., Deka, M.K. and Phukan, S.N.	Effect of different concentration of soda, pre-soaking media, cooking methods and cooking and reeling parameters of mugha cocoons in Autumn crops.	Journal of Experimental Zoology India, 21 (1): 295-297	5.51	2018
M.Phukan and R K Borah	Species composition of field rodents in rice-vegetables cropping system at Upper	Journal of Entomology and Zoology Studies , 7(1) : 961-969	5.53	2019

	Brahmaputra Valley Zone, Assam			
R Thangjam, H R Ramaya, M K Deka, R K Borah and H R Singh	Pollination diversity and foraging behaviour of honey bee, <i>Apis cerana indica</i> on Niger	Indian Journal of Entomology, 80 (3) : 867-869	5.89	2018
R K Borah and S Sarma	Repellency of some indigenous plants from Assam against Lesser bandicoot rat, <i>Bandicota bengalensis</i>	Indian Journal of Entomology, 80(3):769-772	5.89	2018
Haytham Senbill, Lakshmi Kanta Hazarika, Aiswarya Baruah, Deepak Kumar Borah, Badal Bhattacharyya, Sahidur Rahman	Life cycle of the southern cattle tick, <i>Rhipicephalus (Boophilus) microplus</i> Canestrini 1888 (Acari: Ixodidae) under laboratory conditions	Systematic and Applied Acarology. 23 (6): 1169-1179.	7.60	2018
Snigdha Bhattacharjee, Sahidur Rahman and Sudhansu Bhagawati	Evaluation of certain acaricides against yellow mite, <i>Polyphagotarsonemus latus</i> (Banks).	Journal of Entomology and Zoology Studies 6(5): 1034-1038.	5.53	2018
Nilofar Altaf and Sahidur Rahman	Evaluation of certain botanicals against <i>Aphis gossypii</i> (Glover) and <i>Brevipalpus californicus</i> (Banks) in Gerbera.	Journal of Entomology and Zoology Studies, 6(1): 446-449	5.53	2018
S Gogate, S Rahman and P Dutta	Efficacy of synthesized silver nanoparticles using <i>Ocimum sanctum</i> (L.) leaf extract against <i>Corcyra cephalonica</i> (S.)	Journal of Entomology and Zoology Studies. 6(3): 1149-1155	5.53	2018
S Gogate, S Rahman and P Dutta	Pesticidal activity of green synthesized silver nanoparticles using <i>Nerium olender</i> (L.) leaves extract against <i>Leucinodes orbonalis</i> (G.)	International Journal of Chemical Studies 6(3): 438-442	5.31	2018
L.K. Hazarika, P. Das, R. Saikia, A.N. Islam	Settlement behavior of lac insects, <i>Kerria laccacrawlers</i>	Journal of Entomology and zoology studies, Vol. 6(6) 1267-1269	5.53	2018
Rituraj Saikia, Purnima Das, Lakshmi Kanta Hazarika, Athar Nishat Islam, Surajit Kalita and Priyanka Saikia	Species Composition, relative Abundance and Diversity of Ants Associated with Lac Insects in Assam	International journal of Current Microbiology and Applied Sciences, 8(4):1852-1859	5.38	2019
Daizy Sarma, Gaurav Kashyap and Inee Gogoi	Bioassay of some aqueous plant extracts against leaf and fruit scarring beetle, <i>Nodostoma subcostatum</i> (Jacoby)	Journal of Entomology and Zoology Studies	5.53	2019
Kalita, S., Hazarika, L.K., Das, P. and Das, K.	Efficacy of <i>Chromolaena odorata</i> leaf powder and <i>Beauveria bassiana</i> against stored grain pests	Indian Journal of Entomology, 80(3): 1005-1010	5.89	2018
Shimantini Borkataki, Badal Bhattacharyya, Sudhansu Bhagawati,	Aquatic insect fauna of Majuli river island of Assam	Journal of Entomology and Zoology Studies 6(4): 1253-1257	5.53	2018

Ritu Ranjan Taye and Himangshu Mishra				
Himangshu Mishra, Badal Bhattacharyya, Dhanalakhi Gogoi, Sudhansu Bhagawati and Snigdha Bhattacharjee	Management of <i>Odontotermesobesus</i> (Ramb.) through bio-control agents in preserved setts of sugarcane	Journal of Entomology and Zoology Studies; 6(5): 662-664	5.53	2018
Sudhansu Bhagawati, Badal Bhattacharyya, Snigdha Bhattacharjee, Himangshu Mishra and Binoy Kumar Medhi	Impact of soil physicochemical properties on the density and diversity of Collembola in Majuli river island, Assam, India	Journal of Entomology and Zoology Studies; 6(5): 837-842	5.53	2018
Namrata Kashyap, K.N. Das, Bipul Deka and Marami Dutt	Soil Test Based Fertilizer Prescriptions under Integrated Plant Nutrient Supply for Hybrid Rice (cv. US – 382) in Alluvial Soils of Jorhat District of Assam, India	Int.J.Curr.Microbiol.App. Sci (2018) 7(5): 3570-3576	5.3	2018
M. Begum, B. C. Bordoloi and D. D. Singha	Crop growth, yield and juice quality of sugarcane as influenced by different plant growth regulators	Intl J. of Chemical Studies, 6(5):3190 – 3192	5.31	2018
Chakrabarty, R., Kalita, H. and Zaman, A.S.N.	Screening of Indian Mustard genotypes for resistance or tolerance against <i>Alternaria</i> blight under natural and inoculated conditions	Journal of Crop and Weed, 14 (2):183-187	5.28	2018
A. S. N. Zaman, . B. Guha, . S. Mitra, . S. P. Mazumdar, . A. R. Saha, . M. Kumar, . M. Saha and . P. Bandopadhyay	Effect of Nitrogen Management on Productivity and Mineral Nutrition of Ramie [<i>Boehmerianivea</i> (L.) Gaud] and Properties of Soil.	International Journal of Current Microbiology and Applied Sciences 7(11) :2761- 2769	5.38	2018
P. Tamuli, S. K. Bhagabati, R. Dutta, A. S. N. Zaman, J. Sarma, A. Choudhury, L. P. Mudoi and D. J. Debnath	Physico-chemical characteristics of 47 no. Morakolong Beel, Morigaondistrict, Central Brahmaputra Valley Zone, Assam	International Journal of Chemical Studies 6 (5):748- 754	5.31	2018
D. Hazarika, K. D. Singha, . A. S. N. Zaman, . A. Deka and . N. Rahman	Prospect and possibility of doubling farmer's income: A case study in Central Brahmaputra Valley Zone of Assam, India	International Journal of Applied Research 4(6):33-36	8.3	2018
R. Chakrabarty, H. Kalita and A. S. N. Zaman	Screening of Indian mustard (<i>Brassica juncea</i>) genotypes for resistance or tolerance against <i>Alternaria</i> blight under natural and artificially inoculated condition	Journal of Crop and Weed 14 (12):183-187	5.28	2018
Pegu, L., Kalita, P., Borah, H.K., Konwar, M.J.	Analysis of greengram genotypes based on morpho-physiological, biochemical	Legume Research, 41(3): 342-348	6.3	2018

	attributes and seed yield in relation to growing season			
Deka, A.M., Kalita, H., Bora, P.C. and Guha, B.	Effect of dates and methods of transplanting of winter rice on relayed toria and soil health	Journal of Crop and Weed 14(3):41-48	5.28	2018
Deka, A.M., Bora, P.C., Kalita, H., Guha, B. and Chakrabarty, R.	Effect of dates and methods of winter rice transplanting on relayed field pea and soil health	Journal of Crop and Weed 14(3):75-82	5.28	2018
Singha, K. D. and D. Hazarika	Identification of Physiological race(s) of Magnaporthe grisea (Herbert) Barr Causing Blast Disease of Rice Prevailing in Different Agro-Climatic Zones of Assam	International Journal of Current Microbiology and Applied Sciences 7(06) : 3808-3011	5.38	2018
Singha, K. D., C. S. Bharali and D. Hazarika	Identification of pathotype(s) of Xanthomonas oryzae pv. oryzae (Xoo) causing bacterial blight (BB) and the gene(s) responsible for resistance in rice	International Journal of Applied Research 4(8): 65-68	8.3	2018
Parihar, A. K., A. K. Basandrai, K. P. S. Kushwaha., S. Chandra, K. D. Singha, R. S. Bal, D. Saxena, Deepak Singh, and Sanjeev Gupta	Targeting test environments and rust-resistant genotypes in lentils (Lens culinaris) by using heritability-adjusted biplot analysis	Crop & Pasture Science 69: 1113-1125	7.49	2018
Hazarika, D., K. D. Singha, ASN Zaman, Anjumala Deka and N. Rahman	Prospect and Possibility of doubling farmer's income: A case study in Central Brahmaputra Valley Zone of Assam, India	International Journal of Applied Research 4(6): 33-36	8.3	2018
Deka, A., D. Hazarika, K. D. Singha	Effect of Date of transplanting and method of cultivation on yield and economics of Sali rice (Oryza sativa) in Assam	Journal of International Academic Research for Multidisciplinary 6(3): 26 - 34	8.1	2018
Kaman, P and Dutta, Pranab	Synthesis, characterization and antifungal activity of biosynthesized nanoparticle	Indian Phytopathology 72:79-88	5.90	2019
Dutta Pranab, Pegu J, Kaushik H, Kaman, P and Das, Ankita	Scanning Electron Microscopy (SEM) study showed the mode of action of Metarhiziumanisopliae on Odontotermesobesus	Int. J. Curr. Microbiol. App. Sci. 7(10): 901-906	5.38	2018
Kurukar Uday, B. Bhagawati, P.P. Neog, Dutta Pranab and M. Annapurna	Egg mass Mycoflora of Meloidogyne incognita in Assam, India	Int. J. Curr. Microbiol. App. Sci. 8(1): 1616-1634	5.38	2019
Basumatary, B, Mahanta, B, Borah, A and Dutta, Pranab	Assessment of yield losses to Meloidogyne incognita on ivy gourd (Coccinia indica L.).	Journal of Entomology and Zoological Studies 6(4): 923-925	5.53	2018
Nilakshi Kalita, Dutta, P, Das, P. and Nath, P.D.	Compatibility of Entomopathogenous Fungi and Commonly used Insecticides for Management of Banana Aphid transmitting Banana Bunchy	Int. J. Curr. Microbiol. App. Sci. 7(11)	5.38	2018

	Top virus (BBTV) in Assam Banana Production System			
Munmi Borah, Margarita Berbati, Chrysavgi Reppa, Maria Holeva, Palash Deb Nath and Andreas Voloudakis	RNA-based vaccination of Bhut Jolokia pepper (<i>Capsicum chinense</i> Jacq.) against Cucumber mosaic virus	Virus Dis. (29(2):207-211	5.9	2018
Sanjay K. Chetia, Monalisa Kalita, Rahul K. Verma, Bidisha Barua, T. Ahmed, M. K. Modi and Nagendra K. Singh	Flood proofing of Ranjit, a popular variety of North-Eastern India through transfer of Sub1 rice QTL by modified marker-assisted backcross breeding	Indian J. Genet., 78(2): 166-173	6.32	2018
Manzoor H. Dar, Najam W. Zaidi, Showkat A. Waza, Satish B. Verulkar, T. Ahmed, P. K. Singh, S. K. Bardhan Roy, Bedanand Chaudhary, Rambaran Yadav, Mirza Mofazzal Islam, Khandakar M. Iftakharuddaula, J. K. Roy, R. M. Kathiresan, B. N. Singh, Uma S. Singh & Abdelbagi M. Ismail	No yield penalty under favourable conditions paving the way for successful adoption of flood tolerant rice	Scientific Reports	10.12.	2018
Jitendra Kumar, Nirmal De, A Pradhan, Pallab Srama and G. Ravindra Charry	Effect of Tillage on Nutrient Dynamics and Physical Condition of soil under Rainfed Rice Chick Pea based cropping system of Bastar, Chhattisgarh	International Journal of Current Microbiology and Applied Sciences, 7(12): 2319-7706	5.38	2018
Arunima Gogoi, A.C. Barbora, R.K. Kakoti, D. Bhattacharya, S. Dutta, B. Medhi and J. Saikia	Effect of Integrated Nutrient Management on growth, yield, quality and nutrient content of Khasi mandarin (<i>Citrus reticulata</i> Blanco) in acidic soils of Assam, India	International Journal of Current Microbiology and Applied Sciences 7(9):1675-1680	5.38	2018
Sikha Deka, Mukesh Sehgal, R.K. Kakoti and A. C. Barbora	Module analysis for Insect Pest Management of Khasi mandarin (<i>Citrus reticulata</i> Blanco) under climatic conditions of North-eastern India	Journal of Entomology and Zoology Studies. 6(4): 857-861	5.53	2018
Pegu, S. Patgiri, P. Bhattacharyya, B. and Sathish, K.	Evaluation of red flour beetle, <i>Tribolium castaneum</i> (Coleoptera: Tenebrionidae) preference to different colour cues in storage.	Journal Entomology and Zoology Studies Vol. 7(1) 604-607	5.53	2018
Begum K. H., Ashok Bhattacharyya and Deka R. L.	Effect of soil physico-chemical properties on rhizome rot disease of ginger under Assam condition.	Int. J. Curr. Microbiol. App. Sci. 7(06): 2097-2102	5.38	2018
Islam, A. N.; Khanikar, P. G.; Deka, R. L.; Gharphalia, B. J.; Dutta, P. and Medhi, K	Weather manifested rice cultivation	Int. J. Curr. Microbiol. App. Sci. 7(10): 63-73	5.38	2018
Gharphalia, B. J.; Deka,	Variability and Trends of	Int. J. Curr. Microbiol.	5.38	2018

R. L.; Islam, A. N.; Dutta, P. and Medhi, K.	Rainfall Events in the Brahmaputra Valley of Assam, India.	App. Sci. 7(11): 1902-1912		
Begum K. H., Ashok Bhattacharyya and Deka R. L.	Effect of soil physico-chemical properties on rhizome rot disease of ginger under Assam condition	Int. J. Curr. Microbiol. App. Sci. 7(06): 2097-2102	5.38	
Goswami, B., Hussain, R., Vijayakumar, P., Saikia, U.S. and Banarjee, S.	Impact assessment of climate change on potato productivity in Assam using SUBSTOR-Potato model.	Journal of Agrometeorology 20 (2): 105-109	6.40	2018
Goswami, B., Dutta, P. and Hussain, R.	Agroclimatic Environment of various zones of potato in Assam, India.	Int. J. Curr. Microbiol. App. Sci. 7 (9): 2620-2625.	5.38	2018
Barman, B, Goswami, Hussain, R., Khanikar, P. G., Deka, R. L., Sarmah, K., Singh, G. and Singh, A.	Influence of Agroclimatic Indices on tuber yield and some predictive models for agroclimatic condition at Jorhat.	Journal of Pharmacognosy and Phytochemistry. 8(1): 811-814	5.52	2019
Barman, B, Goswami, Hussain, R., Khanikar, P. G., Deka, R. L., Sarmah, K., Singh, G. and Singh, A.	Influence of GDD in different growth parameters of potato for agroclimatic condition at Jorhat.	The Pharma Innovation Journal. 8(1): 247-248	5.03	2019
Bhuyan, S., Sangma, T. and Gogoi, N	Evaluation of physical properties of Eri block print fabric with Annatto (<i>Bixaorellana</i>) dye	International journal of chemical studies.;6(5):3011-3016	5.31	2018
Uttam Kumar Sarkar and BibhaChetia Borah	Flood plain wetland fisheries of India: with special reference to climate change.	Wetlands Ecology and Management, 26 (1): 1-15.	7.51	2018
BibhaChetia Borah, SonmoinaBhuyan, Amlanjyoti Das and BiswajyotiBordoloi	Possible utilization of Goat manure for Fish production in Assam.	The Bioscan, 12	5.26	2018

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Author(s)	Title	Journal Name, Volume, page nos.	NAAS Score	Year of Publication
Debahash Buragohain, Upama Hazarika U. Barman	Climate Variables, Rice yield and Farmers perception A study in Nalbari District of Assam.	<i>Indian Journal of Extension Education, Vol.55 No. 1, 2019 (109-114</i>	5.32	2019

Buragohain ,D;Borua,S; Barman,U.	Status and scope of Integrated Farming System (IFS) in Upper Brahmaputra Valley Zone of Assam. <i>Indian</i>	<i>Indian Journal of Extension Education.55(2):95-100</i>	5.32	2019
Sangita Mahanta, Madhumita Choudhury Talukdar and Pranab Talukdar	Genetic divergence studies in marigold	Int.J.Curr.Microbiol. App.Sci.2019.8(5): 8-12	5.38	2019
Ramdeen Kumar, Khatemenla and S Alam	Genetic variability among taro (<i>Colocasia esculenta</i> L. Schott var. <i>antiquorum</i>) germplasm related to morphological and nutritional characters: A review	Journal of Pharmacognosy and phytochemistry	5.21	2019
A.A.Kureshi, T.Hussain, A.Mirgal, S.P.,Salvi, P.C.Barua, M.Talukdar, C.Beena, A.kar, T.J.Zachariah, S.Kumar, T.Dhanani, R.R.Singh and P.Kumari	Comparative evaluation of antioxidant properties of extracts of fruit rinds of <i>Garcinia</i> species by in vitro assays	Indian Journal of Horticulture 76(2),June 2019: 338-343	6.10	2019
Karishma Borah, Bijit Kumar Saud, Madhumita Choudhury Talukdar, Sarat Sekhar Borah, Niloy Borah and Lekhika Borgohain	Impact of different weed management practices on weed dynamics and growth parameters of Doob grass (<i>Cynodon dactylon</i>) in an Establishing Lawn	Int. J.Curr. Micrbiology and Applied Sceinces ISSN: 2319-7706 vol.8 Number 6 (2019)	5.38	2019
Azazahemad A. Kureshi, Chirag Dholakiya, Tabaruk Hussain, Amit Mirgal, Siddesh P. Salvi, Pritam C. Barua, madhumita Talukdar, C.Beena, Ashish Kar, T.John	Simultaneous Identification and quantification of Three Biologically Active Xanthones in <i>Garcinia</i> species using a rapid UHPLC-PDA Method	Acta Chromatographica	6.77	2019

Zachariah, Premalata Kumari, Tushar Dhanani, Raghuraj Singh and Satyanshu Kumar				
Azazahemad A. Kureshi, Chirag Dholakiya, Tabaruk Hussain, Amit Mirgal, Siddesh P. Salvi, Pritam C. Barua, madhumita Talukdar, C.Beena, Ashish Kar, T.John Zachariah, Premalata Kumari, Tushar Dhanani, Raghuraj Singh, Ponnuchamy Manivel and Satyanshu Kumar	Simultaneous Identification and quantification of Three Xanthoness and two polyisoprenylated Benzophenones in Eight Indian Garcinia species using a validated UHPLC- PDA Method	Journal of AOAC International Vol.102, No: 5,2019	6.77	2019
Dweepjyoti Sarkar, B.K.Saud, P.Mahanta, P.Kalita, B.Neog and Madhumita C Talukdar	Response of African marigold to pinching and gibberellic acid on growth performance and its economics	Journal of Pharmacognosy and Phytochemistry Vol: 8(5), 938-943	5.21	2019
Supriya Bordoloi and Madhumita Choudhury Talukdar	Effect of Organic Inputs on Growth and Flowering Attributes of Chrysanthemum cv. Snowball	International Journal of Current Microbiology and Applied Sciences ISSN: 2319-7706 volume 8 Number 12(2019)	5.38	2019
S.Mahanta, M.C.Talukdar and P.Talukdar	Stability analysis in marigold	Journal of Pharmacognosy and Phytochemistry 9(1),1732-1734	5.21	2020
Saikia, R., Das, P. , Hazarika, L.K., Islam, A.N., Kalita, S. and Saikia, P.	Species Composition, Relative Abundance and Diversity of Ants Associated with Lac Insect in Assam ,	Int. J. Curr. Microbiol. App. Sci. 8(4): 1852-1859	5.38	2019

Das,P; Saikia, R. Hazarika, L.K , Islam, A.N. and Saikia, P	Effect of weather parameters on life cycle duration of lac insect (Kerria.spp.)	Journal of Entomology and zoology studies, Vol. 7(3) 502-504	5.53	2019
Saikia, R; Das, P; Hazarika, L.K. ; Islam, A.N.; Kalita, S and Saikia, P	Species composition, relative abundance and diversity of ants associated with lac insect in Assam.	International Journal of Current Microbiology and Applied Sciences, 8(4): 1852-1859	5.38	2019
Hazarika, L.K; Kalita, S: Das,P; Roy, S	Leaves of Aegle marmelos Correa (Rutaceae): a potential source of acaricide for the management of Oligonychus coffeae (Nietner) (Acari:Tetranychidae)	International Journal of Tropical Insect Science, doi.org/10.1007/s426 90-019-00077-8	6.85	2019
Nibedita Taye and Nivedita Deka	Temporal changes in the agricultural labour scenario in Assam	<i>Agricultural Economics Research Review</i> . Vol 32. Con no pp 213	5.90	2019
Jeemoni Gogoi , Ram Singh and Nivedita Deka	Market arrivals and price volatility of selected agricultural commodities in Assam: a statistical analysis	<i>Agricultural Economics Research Review</i> . Vol 32. Con no pp 225	5.90	2019
Udeshna Talukdar, Nabajit Barman and Nivedita Deka	Supply-demand gap analysis and projections for major pulses in Assam	<i>Agricultural Economics Research Review</i> . Vol 32. Con no pp 233	5.90	2019
Tiluttama Mudoi and Priyanka Das	A Study on Phytochemicals and Mineral Content of Indigenous Red Rice of Assam, India.	International Journal of Current Microbiology and Applied Sciences. 8(4): 1-12	5.38	2019
Bhattacharjee S., Das P., Pathak K. , Nath T., Ojha N. and Barua S	Carbohydrate Profiling of a Few Rice Products of Assam having Ethno- Economic Importance	<i>Int. J. Curr. Microbiol. App. Sci.</i> 8 (12): 2902-2912	5.38	2019

Phukon Ritwik, Bais hya Samindra, Rathi Sunayana , Sarma Akashi	Characterization of Rice Landraces from Dibrugarh District of Assam.	<i>Indian Journal of Plant Genetic Resources.</i> 32(3) : 368-376	5.12	2019
Madhusmita Neog, Priyanka Das and Gautam Kumar Saikia	Changes in Phytochemicals during Processing of Green Tea	<i>Int. J. Curr. Microbiol. App. Sci.</i> 9(1) :414-425	5.38	2020
Rituraj Saikia, Dilip Kumar Saikia, Athar Nishat Islam & Anjumoni Devee	Seasonal population build- up of leaf folder (<i>Cnaphalocrocis medinalis</i> Guenee) in paddy in response to meteorological parameters	Journal of Agrometeorology, 21 (2): 230-232 (Short Communication)	6.56	2019

Sangeeta Hazarika*, P.G. Khanikar, A.N Islam and R.L Deka	Dry and wet spell analysis for crop planning in upper brahmaputra valley zone of Assam	<i>Journal of Agrometeorology Vol. 21, Special Issue-1 : 251-258</i>	6.64	2020
Nguyen Viet Thanh and Bhagawan Bharali	Salinity stress on rice (<i>Oryza sativa</i> L.) crop and its amelioration.	Journal of Pharmacognosy and Phytochemistry, 2019; 8(6): 1435- 1441	5.21	2019 (November)
Bhattacharjya, D.; Bharadwaj, K.; Sarma, A.; Konwar, K.; Sarmah, K.; Das, J.C. and Shandilya, U	Water productivity and nutrient uptake of direct seeded early <i>Ahu</i> rice under medium land situation	<i>International Journal of Chemical Studies</i> 7(2): 2113-2117	5.31	2019
Borah, C.; Goswami, J.; Kurmi, K. and Mohan, G.	Effects of Preceding Scented Rice Varieties in Combination with Organic Inputs on Soil Microbial Properties in Scented Rice (<i>Oryza sativa</i>)-lathyrus (<i>Lathyrus sativus</i> L.) Relay	<i>International Journal of Current Microbiology and Applied Sciences</i> , 8(4): 2084-2089, DOI:10.5958/0974- 0228.2016.00008.6	5.38	2019

	Cropping under Organic System			
Mahanta, N.; Kurmi, K. and Das, J.C.	Conservation of Soil Moisture in Late Sown Toria in Sali Rice Fallows through Moisture Conservation and INM Practices	International Journal of <i>Current Microbiology and Applied Sciences</i> , 8(6): 556-563,	5.38	2019
Kalita, P; Dutta, M; Karmakar, R. M; Dutta, S and Deka, B	Pedogenic distribution of iron and aluminium under different land uses in Golaghat district of Assam	Journal of Pharmacognosy and Phytochemistry, 2019; 8(3): 2554-2561	5.21	2019

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Labhya Rani Gogoi and Sarma, R.N.	Variability and Path Coefficient Analysis in Sesame (<i>Sesamum indicum</i> L.).	Int.J.Curr.Microbiol. App.Sci. 8(07): 229-237.	5.38	2019
Krishna Devi, Purna K. Barua, Meghali Barua	Integrated Effect of Pre-Sowing Seed Treatment, Sowing Windows and Seasons on Seed Yield and Quality of Greengram.	Legume Research [1-6]. Print ISSN:0250-5371 / Online ISSN:0976-0571	6.34	2019
Vidyut kumar Saikia, Rumjhum Phukan, Hrishikesh Ojah, Purna Kanta Barua, Meghali Barua, Prakash Kalita	Heterosis and combining ability analysis of seed yield and its attributes in Indian Mustard [<i>Brassica juncea</i> (L.) Czern and Coss].	Int.J.Curr.Microbiol. App.Sci. 8(12): 1090-1099.	5.38	2019
Panging K, Sarma D, Phukon RG and Das	Trait expression studies of indigenous joha rice of	J.Pharmacognosy and Phytochem,	5.21	2019

S	Assam under organic and inorganic culture.	8(3):4290-4295		
Das S, Sarma D, and Das S. S	Phenotypic stability and homeostasis in Assam rice landraces at varying nitrogen regimes.	J. Expt. Biol. 40(6):1196-1203	6.73	2019

Dhanalakhi Gogoi, Badal Bhattacharyya, Himangshu Mishra, Sudhansu Bhagawati and Snigdha Bhattacharjee	Distribution and abundance of <i>Lepidiotia albistigma</i> in relation to soil physicochemical properties in lower brahmaputra valley of Assam	Indian Journal of Entomology, 81(4):68 8-693	5.89	2019
Himangshu Mishra , Badal Bhattacharyya, Sudhansu Bhagawati, Dhanalakhi Gogoi and Snigdha Bhattacharjee	Suppression of termite attack in tea Ecosystem with biopesticides	Indian Journal of Entomology, 81(4):68 5-687	5.89	2019
G. M. Baldodiya, K. Devi, B. K. Borah, P. D. Nath, M. K. Modi.	Characterization and in silico proteomic analysis of C2 and C3 proteins of squash leaf curl China virus associated with pumpkin leaf curl disease in Assam, India.	<i>Acta virologica</i> , 63: 139 – 148.	6.70	2019
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Biswas, K.K. Supratik Palchoudhury, S, Chakraborty, P, Bhattacharyya, U.K.,	Codon Usage Bias Analysis of Citrus tristeza Virus: Higher Codon Adaptation to Citrus reticulata Host.	Viruses, 11: 331.	9.76	2019

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Barua, P and Nath, P.D.	Isolation of Bacteriophages Infecting <i>Ralstonia solanacearum</i> causing Bacterial Wilt Disease in Naga Chilli (<i>Capsicum chinense</i> Jacq.	<i>Int.J.Curr.Microbiol. App.Sci</i> 8(2): 927-937	5.38	2019
Gogoi, S.H, Nath, P.D., Thakuria, N, Gogoi, S, Das, B, Deka, N and Raj, K	Molecular Detection and Characterization of Papaya Ring Spot Virus (PRSV) Disease in Jorhat District of Assam, India.	<i>Int.J. Curr. Microbiol.App.Sci</i> 8(2): 1564-1571	5.38	2019
Kaman, P and Dutta, P.	Synthesis, characterization and antifungal activity of biosynthesized silver nanoparticle.	<i>Indian Phytopathology</i> , 72:79-88.	5.90	2019
Lalngaihawmi and Bhattacharyya, A.	Study on the Different Modes of Action of Potential <i>Trichoderma</i> spp. from Banana Rhizosphere against <i>Fusarium oxysporum</i> f.sp. <i>cubense</i> .	<i>Int. J. Curr. Microbiol. App. Sci</i> 8(1): 1028-1040.	5.38	2019

Oladokun JO, Halabi, MH, Barua P and Nath PD.	Tomato brown rugose fruit disease: current distribution, knowledge and future prospects Plant Pathology (UK)	<i>Plant Pathology</i> 68:1579-1586	8.30	2019
Shankar Hemanta Gogoi, Palash Deb Nath, Ranima Mishra and Sheriful Alam	Mixed infection among phytoplasmas, Potato virus Y and Cucumber mosaic virus in Xanthosoma plants in Assam, India	<i>Phytopathogenic Mollicutes</i> 9 (1): 151-152	5.06	2019
Shankar Hemanta Gogoi, Jutimala Phookan, Palash Deb Nath and Manoj Kumar Kalita	Detection of a possible insect vector and alternative host plants for the sesame phyllody phytoplasma in Assam, India	<i>Phytopathogenic Mollicutes</i> 9 (1): 23-24	5.06	2019
Shankar Hemanta Gogoi, Ranima Mishra and Palash Deb Nath	Association of phytoplasmas with banana bunchy top viral disease in banana plants in Assam, India	<i>Phytopathogenic Mollicutes</i> 9 (1): 147-148	5.06	2019
Jutimala Phookan, Manoj Kumar Kalita, Sahidur Rahman, Shankar Hemanta Gogoi and Palash Deb Nath	Identification of sesame phyllody transmitting insect vectors in Assam, India	<i>Phytopathogenic Mollicutes</i> 9 (1): 145-146	5.06	2019-
Manoj Kumar Kalita, Ashok Kamal Gogoi, Shankar Hemanta Gogoi, Jutimala Phookan, Palash Deb Nath, Prasanta Neog, Pranjali Pratim Neog and Buddha Bora	Influence of meteorological parameters on leafhopper vector population and sesame phyllody disease incidence in Assam, India	<i>Phytopathogenic Mollicutes</i> 9 (1): 173-174	5.06	2019
Oladokun JO, Halabi, MH, Barua P and Nath PD	2019. Tomato brown rugose fruit disease: current distribution, knowledge and future prospects	Plant Pathology (UK)	8.30	2019 (October)
Mohamad Hussam Halabi, John Oladeji	Evidence of occurring alfalfa mosaic virus in	<i>Virus Disease</i> 30(4):571-573	5.90	2019 (October)

Oladokun and Palash Deb Nath	potato plants in Assam, India.			
Swapna Choudhury, Avaranit Phukan, Pradip Kumar Borah and Saurav Das	<i>In vitro</i> antimicrobial activity of <i>Achyrenthes aspera</i> L. with different extraction solvents	International Journal of Chemical Studies. 2019. 7(5): 4546-4550	5.31	2019
Sharma P, Bora L C, Acharjee S, Bora Popy, and Jagdale B R (2020)	Zinc enriched <i>Pseudomonas fluorescens</i> triggered defense response in rice against bacterial leaf blight.	<i>Indian Journal of Agricultural Sciences</i> , 90(3): In Press	6.23	2020
Munmi Borah and Naga Charan Konakalla	RNA interference and its application in crop protection	International Journal of Current Microbiology and applied sciences(IJCMAS)	5.38	2019
Bhupen Deka, Barua, S.C., Borthakur, D., Sabhapandit, S. and Gogoi, R.C.	'Preliminary Screening of Suitable Clones for Manufacturing Green tea on the Basis of Total Catechin Analysis'	<i>International Journal of Current Advanced Research</i> , 08(03), pp.17980-17983	6.614 (impact factor)	2019
Bhupen Deka, Barua, S.C., Borthakur, D., Sabhapandit, S. and Gogoi, R.C.	'Identification of suitable clones for manufacturing green tea from the existing released clones in N.E. India'	<i>International Journal of Current Advanced Research</i> , 08(04), 18359-18362	6.614 (impact factor)	2019
M. Neog, Das, P., and G.K. Saikia	'Changes in Phytochemicals during Processing of green tea'	<i>International Journal of Current Microbiology & Applied Sciences Vol 9 (1) pp.2319-7706</i>	5.31-	2020
Suchandra Bhattacharjee, Priyanka Das, Khanim Pathak, Tankeshwar Nath, Nayanjyoti Ojha, Smrita Barua	Carbohydrate Profiling of a few Rice Products of Assam having Ethno Economic Importance	ISSN-2319-7706 Volume 8	5.38	2019
Hazarika N., Acharjee	Enhanced expression of Arabidopsis rubisco small	Journal of Plant Biochemistry and	6.77	2019

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D. J. Hazarika, G. Goswami, T. Gautom, A. Parveen, P. Das, M. Barooah and R. C. Boro .	Lipopeptide mediated biocontrol activity of endophytic <i>Bacillus subtilis</i> against fungal phytopathogens.	BMC Microbiology , 19:71	9.29	2019
John Ayobami Amao 1,2 · Madhumita Barooah2 · Patricia Folakemi Om ojasola [accessed May 13 2020].	Comparative 16S rDNA metagenomics study of two samples of cassava peel heap from Nigeria and India	3 Biotech (2019) 9:418	7.79	2019
T. Gautom, D. J.Hazarika, G. Goswami, M. Barooah, M. C. Kalita, R. C. Boro	Exploring the genetic diversity and recombination analysis of Citrus tristeza virus isolates prevalent in Northeast India.	Indian Phytopathology 73:145–153	5.90	2020

Jyotshna Keot, Su dipta Sankar Bora, Rajiv Das Kangabam & Ma dhumita Barooah	Assessment of microbial quality and health risks associated with traditional rice wine starter <i>Xaj-pitha</i> of Assam, India: a step towards defined and controlled fermentation.	<i>3 Biotech</i> 10 , 64	7.79	2020
Upadhaya, D., Kumar, B. Kumar, S., Sharma, A.K., Fular, A., Bisht, N., Srivastava, S. Boruah, R. R. Nagar, G., Shakya, M., Nath, T. , Nandi, S. P., Karivaradharaja, S., Ghosh, S.	Characterization of acaricide resistance in <i>Rhipicephalus</i> microplus populations infesting cattle in northeastern India and assessment of local plant extracts for tick management.	<i>Veterinary Parasitology:</i> 277(109011): 1-10	8.01	2020
Bhattacharjee, S., Das, P., Pathak, K., Nath, T. , Nayanjyoti, O. and Smrita, B.	Carbohydrate Profiling of a Few Rice Products of Assam having Ethno-Economic Importance.	<i>International J. of Current Microbiology and Applied Sciences</i> :8 (12) : 2902-29012,	5.38	2019
Mukharjee, P.K., Mehetre, S.T., Sherkhane, P.D., Muthukathan, G., Ghosh, A., Kotasthane, A.S., Khare, N., Rathod, P., Sharma, K.K., Nath, R., Tewari, A.K., Bhattacharyya, S., Arya, M., Pathak, D., Wasnikar, A.R., Tiwari, R.K.S. and Saxena, D.R	A Novel Seed-Dressing Formulation Based on an Improved Mutant Strain of <i>Trichoderma virens</i> , and Its Field Evaluation	<i>Frontiers in Microbiology</i> , 10, 1-13.	10.02	2019

Das, A., Gupta, S., Parihar, A. K., Singh, Deepak., Chand, R., Pratap, A., Singha, K. D. & Kushwaha, K. P. S.	Delineating Genotype × Environment interactions towards durable resistance in mungbean against <i>Cercospora</i> leaf spot (<i>Cercospora</i> <i>canescens</i>) using GGE biplot	<i>Plant Breeding.</i> 2019;00:1–12, wileyonlinelibrary.com/ journal/pbr: 1-12 pp	7.39	2019
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Kalita, Binod and S. S. Bora	Maize research and development in Assam.	<i>Inter. J. Chemical Studies</i> , 7(4), 66-70	5.21	2019
Kalita, H and Chakrabarty, R.	Soil microbes, nutrient removal, productivity and profitability of lentil (<i>Lens culinaris</i> Medikus) influenced by weed management practices.	<i>J. Crop weed</i> , 15(1), 127-133.	5.28	2019
Deka, A.M., Kalita, H., Borah, N., & Zaman, A.S.N.	Nutrient uptake and nutrient balance as influenced by different rice-based cropping patterns in Assam	<i>J. Crop and Weed</i> , 15(2), 72-78	5.28	2019
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Kakoti R. K., Saikia J., Deka, S., Gogoi, A and Barbora A. C.	Present Status of Khasi Mandarin in Manipur State of North East India.	<i>Int.J.Curr.Microbiol.Appl.Sci.</i> 8(06):2157-2165.	5.38	2019
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Borsha Rani Baruah ¹ , R. K. Kakoti, A. Borbora, S. Singh, S. Saikia and P. D. Nath	Biological Indexing and Molecular Approaches in Detecting a Mild Strain 'CRS 4' against Citrus tristeza Virus in Khasi mandarin (<i>Citrus reticulata</i>)	<i>Int. J. Curr. Microbiol. Appl. Sci.</i> (2019) 8(9): 749-757.	5.38	2019
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B.Saikia, M.S.Ali, P.D.Nath and P.C.Dey	Exploring the yeast diversity of common alcoholic beverages of Assam	<i>Int. J. curr. Microb. Appld. Sci.</i> 8 (5):1519-1527	5.38	2019
Aditi Bhandari, Pawan Jayaswal, Neera Yadv, Renu Singh, Yashi Singh, Nisha Singh, Sangeeta Singh, Amitha Sevanthi, Vandna Rai, Satish Verulkar, P.V. Ramana Rao, M. Girija Rani, T. Anuradha, P.V.	Genomics-assisted backcross breeding for infusing climate resilience in high-yielding green revolution varieties of rice.	<i>Ind.J.Genet.</i> 160-170	6.32	2019

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Upadhyay V., Medhi K., Pandey P., Thengal P., Paul S.K. & Kushwaha K.P.S	Rust Disease of Pea: A Review	International Journal of Current Microbiology Applied Science 8(4): 416-434	5.38	2019
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Bezbaruah, R and Deka, R.S.	Effect of vocational training programme on vermicompost and other organic input production as income generating enterprise	Journal of Community mobilisation and sustainable development 15 (1) : 235 – 238	5.30	2019
Borsha Rani Baruah, R. K. Kakoti, A. Borbora, S. Singh, S. Saikia and P. D. Nath	Biological Indexing and Molecular Approaches in Detecting a Mild Strain 'CRS 4' against Citrus tristeza Virus in Khasi Mandarin (<i>Citrus reticulata</i>)	<i>Int. J. Curr. Microbiol. App. Sci.</i> 8(9): 749-757	5.38	2019
Rituraj Saikia, Dilip Kumar Saikia, Athar Nishat Islam &	Seasonal population build-up of leaf folder (<i>Cnaphalocrocis medinalis</i> Guenee) in paddy in	<i>J. Agrometeorol</i> , 21 (2): 230-232 (Short Communication)	6.56	2019

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Panging, M.; Neog, P.; Deka, R.L. and Medhi, K.	Assessment of performance of potato crop under modified microclimates in rice based cropping system of Upper Brahmaputra Valley Zone of Assam.	<i>J. Agrometeorol</i> , 21(3):249-253	6.56	2019
Das, P.; Saikia, R. Hazarika, L.K.; Islam, A.N. and Saikia, P.	Affect of Weather Parameters on life cycle duration of Lac insect (<i>Kerria spp.</i>) (Kerridae: Hemiptera).	Journal of Entomology and Zoology Studies. Volume- 7(3) Page- 502-504	5.53	2019
Saikia, R.; Das, P.; Hazarika, L.K.; Islam, A.N.; Kalita, S. and Saikia, P.	Species composition, relative abundance and diversity of ants associated with Lac insect in Assam.	International Journal of Current Microbiology and Applied Sciences Volume-8(4) page- 1852-1855	5.38	2019
Neog, P.; Medhi, K. and Venkataraman, S.	A preliminary study on attainment of maximum tillering as an important phenological stage in rice.	<i>J. Agrometeorol</i> , 21(3):400-401	6.56	2019
Medhi, K.; Neog, P.; Goswami, B.; Deka, R.L. and Hussain, R.	Agrometeorological Indices in relation to Phenology and Yield of Rice Genotype (<i>Oryza sativa</i> L.) under Upper Brahmaputra Valley Zone of Assam.	International Journal of Current Microbiology Applied Sciences, 8(6):1459-1471	5.38	2019
B.Bhagawati and B.N.Choudhury	Efficacy of fungal bioagents for the management of <i>Meloidogyne graminicola</i> infecting rice	Indian Journal of Nematology, Vol.48, P1 78-182	5.03	2019
B.Bhagawati B.N.Choudhury and S.Singh	Biomanagement of disease complex caused by <i>Meloidogyne incognita</i> Race 2 and <i>Ralstonia solanacearum</i> in jute	Indian Journal of Nematology, Vol.48, P2 27-229	5.03	2019
Rinkimoni Kalita, Jisna George, Gitanjali Devi, Badal Bhattacharyya	Isolation of entomopathogenic nematodes from Assam Agricultural University, Jorhat, Assam	Journal of Entomology and Zoology studies. 7:208-214	5.53	2019
Rinkimoni Kalita, Jisna George, Lipika Khataniar, Gitanjali Devi, Badal Bhattacharyya	Mass multiplication of entomopathogenic nematodes in artificial media	Journal of Entomology and Zoology studies. 7:215 0219	5.53	2019
Debanand Das, Nibedita Borgohain, Ashok Bhattacharyya and Kartik Baruah	Management of banana Pseudostem Weevil- A Biological Approach.	<i>International Journal of Current Microbiology and Applied Sciences</i> 8(10):2270-2274	5.38	2019
Pegu, S., Patgiri, P., Bhattacharyya, B and Kota, S.	Evaluation of red flour beetle, <i>Tribolium castaneum</i> (Coleoptera; Tenebrionidae) preference to different colour cues in storage.	Journal of Entomology and Zoology Studies 7(1) 604-607	5.53	2019
Sarma, S., Patgiri P.,	Biodiversity of soil insects and	Journal of Entomology	5.53	2019

Rahman, A. and Singh, N.A.	their important role in soil ecosystem: A study in the Jorhat district of Assam, India.	and Zoology Studies 7(4) 904-909		
Mayuri D. Mahalle, P. C. Dey, S.K.Chetia, A. R. Barua, T. Ahmed, R. N. Sarma, R. C. Kaldate, Amrendra Kumar, Sushil Kumar Singh (2020).	Association mapping for yield traits under drought stress in Autumn rice germplasm collection of Assam.	Journal of plant biochemistry and Biotechnology	7.04	2020
Choudhury, M. R., Dutta, S. and Bhattacharyya, D.	Soil Properties under Different Land Use Systems in Karimganj District of Assam, India	<i>International Journal of Current Microbiology and Applied Sciences</i> . 9(03), 54-59	5.38	2020
Talukdar, N., Borah, H. K., & Sarma, R. N.	Genetic variability of traits related to synchronous maturity in Greengram (<i>Vigna radiata</i> (L.) wilczek).	<i>Int. J. Curr. Microbiol. App. Sci.</i> 9(01):1120-1133	5.38	2020
Kalita, Binod., Sarat Sekhar Bora and Bhabesh Gogoi	Zeolite: A Soil Conditioner.	<i>Int.J.Curr.Microbiol.Ap p.Sci</i> , 9(1), 1184-1206	5.38	2020
Kakoti R. K., P. Deb Nath, M. Borah and A. C. Barbora	Molecular detection of <i>Candidatus Liberibacter asiaticus</i> causing Huanglongbing (HLB) in Khasi mandarin orchards (<i>Citrus reticulata</i>) of Assam, India	<i>Int.J.Curr.Microbiol.Ap p.Sci</i> . 9(03) :1057-1061.	5.38	2020
Taye, R.R. & Borkataki, S.	Role of secondary metabolites in plant defense against insect herbivores.	<i>International Journal of Chemical Studies</i> , 8 (1), 200-203.	5.31	2020
Taye, R.	An overview on the diversity, nesting behaviour and importance of stingless bees (Hymenoptera; Apidae).	<i>Journal of Pharmacognosy and Phytochemistry</i> , 9(1), 529-532	5.21	2020
Taye, R.R, Rahman, A., Sen, P, Borkataki, S & Bathari, M.	Molecular Characterization of Bumble Bees Species from North East Himalayas	<i>International Journal of Current Microbiology and Applied Sciences</i> , 9(5), 1-7.	5.38	2020
Borkataki, S. Taye, R.R., Padhy, D., Ramalakshmi, V. & Reddy, M.D.	Occurrence of Odonates in M. S. Swaminathan School of agriculture (MSSSoA), CUTM, Paralakhemundi campus, Odisha	<i>Journal of Entomology and Zoology Studies</i> , 8 (2), 806-808.	5.53	2020
Tamuly, Gariyashi., Deka, R. L., Goswami, B. and Goswami, J. (2020)	Trend of temperature regime in the Brahmaputra valley of Assam during 1986-2015.	<i>J. Agrometeorol</i> 21 (Special Issue-1):106-112 (December 2019)	6.64	2020
Neog P., Sarma P.K., Saikia D., Borah P., Hazarika G.N., Sarma M.K., Sarma D., Chary G. R., Rao C. S.	Management of drought in <i>Sali</i> rice under increasing variability in the north Bank Plains Zone of Assam, North East India	<i>Climatic Change</i> , 158, 473–484	10.17	2020

Sangeeta Hazarika*, P.G. Khanikar, A.N Islam and R.L Deka	Dry and wet spell analysis for crop planning in Upper Brahmaputra Valley Zone of Assam	<i>J. Agrometeorol</i> 21 (Special Issue-1) : 251- 258 (December 2019)	6.64	2020
Ananya Dutta, Aparajita Borah, Bornali Mahanta and Pranab Dutta	Integration of biocontrol agents and chemical for the management of <i>Meloidogyne incognita</i> and <i>Sclerotinia sclerotia</i> complex on French bean	<i>Journal of Entomology and Zoology Studies</i> 8:1546-1551	5.53	2020
Basumatary, A., Ozah and Goswami,K, (2019)	Assessment of available macro and micronutrient status in soils of Dhubri district of Assam.	Journal of the Indian Society of Soil Science. 67(4):423-430.	5.23	2019
Bhupenchandra, I., Basumatary, A., Dutta, S., Singh, L.K. and Dutta, N.	Impact of boron fertilization on boron fractions at different crop growth stages in cauliflower- cowpea-okra sequence in an Inceptisols of North East India.	Journal of Plant Nutrition Vol 43 issue8 1175-1188	6.57	2020
Goud, G. B., Bharali,B. Basumatary, A. and Devi, S. H.	Response of wheat (<i>Triticum aestivum</i> L.) genotypes to sulphur aerosols.	Journal of Pharmacognosy and Phytochemistry	5.21	2020
Hazrika, P.P.; Medhi ,B.K.;Deka,K. ; Thakuria, R .K. and Bora, R.	Characterization of grey water to assess its feasibility for irrigation under different soil types and depth	Journal of Pharmacology and Phyto chemistry, 8 (1): 587-592.	5.21	2019
Kalita, P., Dutta, M. Karmakar, R.M., Dutta, S. and Deka, B.	Pedogenic distribution of iron and aluminium under different land uses in Golaghat district of Assam	Journal of Pharmacognosy and Phytochemistry, 8 (3): 2554-2561	5.21	2019
Thakuria, I.; Hazarika,P.P.; Deka,K.; Medhi, B.K.; Rahman,N.; Baruah,N and Baruah. S.	GIS Aided Groundwater Quality Mapping of Central Brahmaputra Valley Zone of Assam, India	Current Journal of Applied Science and Technology, 34(6): 1-14	5.32	2019
Saikia, R., Das, P., Hazarika, L.K., Islam, A.N., Kalita, S. and Saikia, P.	Species Composition, Relative Abundance and Diversity of Ants Associated with Lac Insect in Assam ,	Int. J. Curr. Microbiol. App. Sci. 8(4): 1852- 1859	5.38	2019
Borbaruah, P. and Kalita, S.	Bioefficacy of <i>Chromolaena odorata</i> against <i>Oligonychus coffae</i> Nietner (Acarina: Tetranychidae) and <i>Helopeltis theivora</i> Waterhouse (Hemiptera: Miridae) in tea.	Journal of Entomology and Zoology Studies 7(5): 418-423	5.53	2019
Hazarika, L.K., Kalita, S., Das, P. and Roy, S.	Leaves of <i>Aegle marmelos Correa</i> (Rutaceae): a potential source of acaricide for the management of <i>Oligonychus coffae</i> (Nietner) (Acari: Tetranychidae).	International Journal of Tropical Insect Science, 39: 1-5	6.85	2019

Mudoi, A; Das, P, Hazarika, L.K, Das, Karishma and Roy, Somnath	Variations n hemocyte profile induced by <i>Beauveria bassiana</i> (Bals.) Vuill. In <i>Periplaneta americana</i> (L.) (Blattodea: Ectobiidae)	International journal of tropical insect science, Doi 10.1007/s42690-019-00054-1	6.85	2019
Mudoi, A; Das, P and Hazarika, L.K	Hemocytes of <i>Periplaneta americana</i> (Blattodea: Blattidae)	Journal of entomological research, 43(3):397-400	5.05	2019
Das,P; Saikia, R. Hazarika, L.K , Islam, A.N. and Saikia, P	Effect of weather parameters on life cycle duration of lac insect (<i>Kerria.spp.</i>)	Journal of Entomology and zoology studies, Vol. 7(3) 502-504	5.53	2019
Das, P; Bhuyan, R.P; Shandilya, U; Borah, Borah, B and Gharphalia, B.J.	Bio-efficacy and phytotoxicity of Sulfoxalor 50% WG against tea mosquito bug (<i>Helopeltis theivora</i>) and green fly (<i>Empoasca flavescens</i>) and its effect against natural enemies in tea.	Journal of Entomology and zoology studies, 7(4):224-229	5.53	2019
Das, P; Borah, B; Saikia, P; TH, Sushmita and D, Chakrabortay.	Efficacy of <i>Beauveria bassiana</i> and <i>Isaria fumosorosea</i> against <i>Eublemma amabilis</i> (Noctuidae:Lepidoptera): A predator of lac insect, <i>Kerria lacca</i> (Kerr)	Journal of Entomology and zoology studies, 7(3):1239-1241	5.53	2019
Dutta, D., Gogoi, I. And Mohapatra, S.	Bioassay of Some Plant Oils against Termite, <i>Odontotermes obesus</i> (Isoptera: Termitidae)	Int.J.Curr.Microbiol.Ap p.Sci 8(2): 486-492	5.38	2019
Mohapatra, S. And Gogoi, I.	Bioassay of some plant extracts against cowpea aphid, <i>Aphis craccivora</i> Koch	Journal of Entomology and Zoology Studies: 7(1):696-700	5.53	2019
Sarma, D., Kashyap, G. and Gogoi, I.	Bioassay of some aqueous plant extracts against leaf and fruit scarring beetle, <i>Nodostoma subcostatum</i> (Jacoby)	Journal of Entomology and Zoology Studies 2019; 7(1): 1661-166	5.53	2019
Sudhansu Bhagawati, Badal Bhattacharyya, Himangshu Mishra and Snigdha Bhattacharjee.	Efficacy of different microbial agents against <i>Lepidiotia mansueta</i> Burmeister (Coleoptera: Scarabaeidae) in green gram	Journal of Entomological Research, 43(1): 69-72	5.05	2019
Himangshu Mishra, Badal Bhattacharyya, Sudhansu Bhagawati, Dhanalakhi Gogoi and Snigdha Bhattacharjee.	Suppression of termite attack in tea ecosystem with biopesticides.	Indian Journal of Entomology, 81 (4): 685-687.	5.89	2019
Dhanalakhi Gogoi, Badal	Distribution and abundance of <i>Lepidiotia albistigma</i> in relation	Indian Journal of Entomology,	5.89	2019

Bhattacharyya, Himangshu Mishra, Sudhansu Bhagawati and Snigdha Bhattacharjee.	to soil physicochemical properties in lower Brahmaputra valley of Assam.	81(4): 688-693.		
Rinki Mani Kalita, Jisna George, Lipika Khataniar, Gitanjali Devi and Badal Bhattacharyya.	Occurrence of Entomopathogenic nematodes (EPNs) from fields of Assam Agricultural University, Jorhat, Assam	Journal of Entomology and Zoology Studies, 7(6): 680-686.	5.53	2019
Rinki Mani Kalita, Jisna George, Gitanjali Devi and Badal Bhattacharyya.	Isolation of entomopathogenic nematodes from Assam Agricultural University, Jorhat, Assam	Journal of Entomology and Zoology Studies, 7(5): 208-214.	5.53	2019
Phookan, J., Kalita, M. K., Rahman, S., Gogoi, S. H. And Nath, P. D.	Identification of sesame phyllody transmitting insect vectors in Assam, India	Phytopathogenic Mollicutes	5.06	2019
Altaf, N. and Rahman, S.	Laboratory studies on biology of false spider mite, <i>Brevipalpus californicus</i>	International Journal of Zoology Studies		2019
Sarmah N., Devee A. and Dionyssios P.	Macrolophus pygmaeus (Hemiptera: Miridae) foraging on tomato leaves from different plant strata	Phytoparasitica	7.02	2019
Harshita, A.P., Saikia, D.K. and Devee, A.	Population dynamics and management of whitefly, <i>Bemisia tabaci</i> in tomato ecosystem, <i>Solanum lycopersicum</i> L.	Journal of Entomology and Zoology studies, 7(2):1232-1235	5.53	2019
Harshita AP, Saikia DK, Borah LC, Devee A and Phukan SN	Seasonal incidence of aphid, <i>Aphis gossypii</i> and coccinellid beetles in tomato ecosystem, <i>Solanum lycopersicum</i> L.	Journal of Entomology and Zoology studies, 7(3): 879-882	5.53	2019
Saikia, R; Saikia DK, Islam AN and Devee A	Seasonal population build-up of leaf folder (<i>Cnaphalocrocis medinalis</i> Guenee) in paddy in response to meteorological parameters	Journal of Agrometeorology, 21(2), 230-232	6.64	2019
Sarma, S., Patgiri, P, Rahman, A. and Singh, N.A.	Biodiversity of soil insects and their important role in soil ecosystem: A system in the Jorhat district of Assam, india	Journal of Entomology and Zoology Studies. 7(4): 904-909	5.53	2019
Borkakati, R. N., Saikia, D. K. and Sarma, Daizy	Manipulation of crop habitat to encourage natural enemies against key pests of cabbage ecosystem	Journal of entomology and zoology studies. 7(3): 151-54	5.53	2019
Borkakati, R. N.,	A brief review on food	Journal of entomology	5.53	2019

Venkatesh, M. R., Saikia, D. K. and Borah, S. S.	recognition by insects: Use of sensory and behavioural mechanisms.	and zoology studies. 7(3): 574-579		
Borkakati, R. N., Saikia, D. K., GaurabKashyap and Dutta B. C.	Evaluation of certain entomopathogenic fungi against soil insect pests of potato.	Journal of entomology and zoology studies. 8(1): 889-891	5.53	2020
Kashyap Gaurav, Borkakati, R. N., Dutta B. C. and Saikia, D. K.	Efficacy of different botanicals against subterranean insect pests of potato .	Journal of entomology and zoology studies. 8(1): 875-878	5.53	2020
M.Phukan and R K Borah	Burrowing architecture and food hoarding behaviour of field rodents in rice-vegetables cropping system at Upper Brahmaputra Valley Zone, Assam	<i>Journal of Entomology and Zoology Studies</i> , 7(4) : 1111-1118(2019)	5.53	2019
M.Phukan and R K Borah	Population dynamics of field rodents in rice-vegetables cropping system at Upper Brahmaputra Valley Zone of Assam	<i>Journal of Entomology and Zoology Studies</i> , 8(1):303-310(2020)	5.53	2019
Pradhan, P. P., Borkakati, R. N. and Saikia, D. K.	(2019). A review on Ekbom Syndrome.	Journal of entomology and zoology studies. 7(3): 894-900	5.53	2019
Borkakati, R. N., Saikia, D. K., and Venkatesh, M. R. (	Habitat manipulation for managing insect pests of brinjal.	Indian Journal of Entomology. 81(4):717-720	5.83	2019
M.Phukan and R K Borah	Species composition of field rodents in rice-vegetables cropping system at Upper Brahmaputra Valley Zone, Assam	<i>Journal of Entomology and Zoology Studies</i> , 7(1) : 961-969 (2019)	5.53	2019
M.Phukan and R K Borah	Evaluation of various integrated rodent management modules in rice-vegetables cropping system at Upper Brahmaputra Valley, Zone, assam	<i>Journal of Entomology and Zoology Studies</i> , 7(2) : 1057-1061 (2019)	5.53	2019

6.6.3.5 Innovation and Best Practices: What are the Innovative efforts of the University that help in its excellence in research?

1. Identification of researchable area

The research problems for each of the agro-climatic zones are identified through Rapid Rural Appraisal/Participatory Rural Appraisal etc. and also based on the feedback received from the line departments and extension network (KVKs). The problems thus identified are discussed in the ZREAC/REAC for confirmation, prioritization and categorization as short-term and long-term research needs. The research problems identified in the ZREAC/REAC meeting are forwarded to the Research Advisory Committee and Technical Committee via the Director of Research for further discussion and finalization of the research problems to be addressed by the University as short-term and long-term goals. The recommendations of the RAC and TC meetings are also passed on to the respective Directors of Research for necessary action.

a) Assignment of research projects

The recommendations of the RAC and TC meetings are placed before the Research Management Committee (RMC) by the respective Directors of Research. The RMC defines the broad objectives of different research programs to conduct research on the identified research problems and assign specific research projects to different research stations and departments of the University. The committee also decides about the scientist(s) or the team of scientists from different research stations as well as from different departments to work on specific projects.

b) Preparation of technical programs

The respective Director of Research invites detailed technical programs from the selected scientists on the specified projects as done in case of ad-hoc projects funded by the ICAR and/or other agencies. It is emphasized that the projects should be well planned with indication of time frame for different activities and expectations. The selected scientists are to present the technical programs in the Technical Committee Meeting for necessary suggestions for refinement of the projects. The concerned scientist, then, makes necessary modifications in the project according to the suggestions and resubmits the projects to the concerned Director of Research through the Head of the Department/Chief Scientist/Station In-charge for approval of the RMC. It is important to note that the post-graduate research programs are also in the purview of the respective RMC and the monitoring system.

2. Review of ongoing research programs

Research findings of all the on-going research projects are presented by the concerned researchers before the Technical Committee. The Technical Committee may suggest for continuation of the work as it is or for modification in the technical program or for conducting multilocation trials/ on-farm trials/demonstrations of certain formulation considered to have potential for recommendation to the farmers.

3. Monitoring of Research

For smooth and effective implementation of the research programs, a monitoring system is in operation in the University. The research progress is monitored via a self-regulatory monitoring system and also by employing monitoring teams for the purpose. Under the self-regulatory monitoring system, the concerned researchers are to submit a half yearly progress report to the respective Director of Research incorporating the information such as (i) achievements till the date, (ii) experiments completed, (iii) experiments in operation, (iv) up-to-date expenditure statement, (v) proposals for recommendation, if any, (vi) proposals for mid-term correction if any and any other information considered important.

A Research Monitoring Unit is in place in the Directorates with the Associate/Deputy director in charge of the Unit to coordinate the research monitoring activities. The Director of Research in consultation with the Research Management Committee constitutes Research Monitoring Teams of three to four members. The research monitoring teams are assigned with the responsibility to monitor different research projects. The monitoring teams are to submit their observations and suggestions to the Director of Research who, in turn, places the reports before the Research Management Committee/Technical Committee for necessary action.

4. Linkage between farmers and scientists

The University has a very strong and dynamic linkage with the farming community. The University involves the farming community in the entire process of conducting research to meet their diverse needs and also for disseminating the technologies and information generated for them. Such linkages are established through various means of technology transfer mechanisms which include On-farm Testing, Frontline Demonstration, Zonal Research and Extension Advisory Committee, participatory rural appraisal/rapid rural appraisal, adopted village approach, Farmers' Day, participatory research, phone in programmes etc.

a) On-farm testing of technology (OFT)

This is an effective tool to evaluate newly developed technology in farmers' field where scientists test the technology generated in university with active participation of group of farmers. The advantages of new technology over the existing ones under farmers' conditions are tested and demonstrated to motivate the farmers for adoption of improved agriculture. It also helps the farmers to learn by seeing and doing. During the process of OFT, the farmers of the

nearby areas are encouraged to observe the trials to see for themselves the worth of the new technologies.

b) Front line demonstration (FLD)

Front line demonstration program is one of the most effective tools for transfer of technology to the farmers with active involvement of scientists, farmers and personnel from development agencies, particularly from the line departments. In these programs, demonstrations are conducted in large contiguous block of land with participation of a number of farmers. These demonstrations facilitate testing and fast dissemination of technologies developed and identified in the University. Because of their active involvement in conducting these demonstrations, the scientists also receive valuable feedback on the merits and demerits of the technologies for their further refinement. Being large in size, the demonstrations present better visibility of the performance of the technology to the surrounding farmers and extension workers. It also acts as the best source for multiplying the seeds of new varieties for fast dissemination, when varieties are demonstrated. Thus, this method provides opportunities for farmers' active participation in the technology evaluation and dissemination.

For conducting FLD a systematic approach is followed. At the outset, location and participating farmers are selected in consultation with the officials of the state department of agriculture. Generally, the programme is implemented through identified Field Management Committees (FMC) or such committees in the villages. After interaction with the selected group of farmers, the demonstration site is selected. Before conducting the demonstrations the participating farmers and the concerned extension personnel are trained on the new technologies. This helps in effective implementation of the programme. At the time of harvest, a field day is organized at the demonstration site to get the feed-back on the demonstrated technologies and also to attract the farmers of the neighbouring villages to see the performance of the technologies for their quick dissemination.

5. Faculty and students' involvement in research

The research programs of basic, applied and strategic nature are being pursued in the Assam Agricultural University. Faculty members of the constituent colleges are assigned with the responsibility of pursuing research projects that are identified to bear significance for the farming community of the region. The faculty members also take personal initiative to obtain funding and sponsorship from various national and international agencies for pursuing research in the fields of their interest and having relevance to the states' agriculture. Over the last five years, the faculty members of the college of agriculture itself have begged more than 150 such research projects. As is the case in any other agricultural university of the country the post-graduate students need to conduct research under the supervision of the advisory committee for completion of their degree programs. Thus, this stipulation also makes the faculty members as well as the students to get involved in research programs in the colleges where there is provision for post-graduate degree programs. The post-graduate research programs are also under the

purview of the research management system of the University as in case of any other research programs.

Feedbacks from the line department are taken during the time of identification of research problems, experimentation as well as during the dissemination of recommended technology to the farmers' field. Research programmes are formulated based on the practical problems experienced by the personnel from the line departments in farmers' field. They are also involved in OFT and FLD to judge the performance of research findings in practical field. After successful OFT and FLD, MLT *etc.* the specific findings are recommended by the University after discussing it in different forum and finally it is included in Package of Practices after a joint meeting of scientists and officials from University, line departments and other stake holders.

6.6.3.6. IPR Cell/ ITMU

Whether the University is currently having functional Intellectual Property Right Cell in place. Mention the date of the meetings conducted by the Cell in last three years and what were the major recommendations. Is the University having Institute Technology Management Unit in place. Mention the date of the meetings conducted by the Unit in last three years and what were the major recommendations.

Assam Agricultural University has a functional IPR cell. The rules and regulations pertaining to IPR matters are governed by “Assam Agricultural University Guidelines for Intellectual Property Management Technology Transfer/Commercialization, 2012”. Some of the activities of IPR cell in the last three years are as follows:

Patent applications filed

Sl no.	Title of the patent	Inventors' names	Year of application	Present status
1	Improved method of brewing Xaj-pani: Rice based alcoholic beverage	Dr. M. Barooah, Dr. Jyotsna Keot and Dr. Sudipta Saikia	2017	Filed
2	Gold nanoparticle-based dipstick system for quick detection of phallacidin.	Dr. Robin Boro and Coworkers	2017	Filed
3	A novel dipstick method for in-field detection of Citrus Tristeza Virus.	Dr. Robin Boro and Coworkers	2018	Filed
4	Gas fired oven for bamboo stalk cooked rice	Dr Abhijit Borah	2018	Filed
5	Development of a Jatropha based ointment as herbal remedy for livestock against ectoparasites and pathogenic microorganisms and process for obtaining the same.	Dr. Badal Bhattacharyya and co workers	2020	Published
6	A novel bamboo hive for meliponiculture.	Dr. A. Rahman and co workers	2018-19	Published
7	A novel portable device for Xylocopiculture.	Dr. A. Rahman and co workers	2020	Filed
8	Technique of using empty shells of giant african snails as lighting lamps.	Dr. Badal Bhattaacharyya and co workers	2020	Filed

GI applications facilitated and filed by AAU

Sl no.	Title of the GI	Name of applicant	Year of application	Present status
1	Joha rice of Assam	Seuj satirtha, Dist. Sivsagar and AAU, Jorhat, Assam	2013	Registered (2017)
2	Chokuwa rice of Assam	Seuj satirtha, Dist. Sivsagar	2016	Registered (2020)
3	Assam lemon	CRS- NA DIHING Nemu tenga Unnayan Samiti, Dist. Tinsukia	2017	Registered (2019)
4	Judima	YADEM, Dist. Dima Hasao	2018-19	Pending
5	Phulam Gamusa	Institute of handicraft development, Dist. Golaghat	2017	Pending

Others:

1. Facilitated the application of Sri Mahan Bora, Jorhat, Assam recipient of Plant Genome Saviour Farmer Reward, 2016-17 (Under the provisions of Protection of Plant Varieties and Farmers' Right Act, 2001). Award was conferred on 2019.
2. Facilitated the application of Dr. Prabin Saikia, North Lakhimpur, Assam recipient of Plant Genome Saviour Farmer Recognition 2016-17 (Under the provisions of Protection of Plant Varieties and Farmers' Right Act, 2001). Award was conferred on 2019.
3. Facilitated the applications for registration of Farmers' varieties under the provisions of Protection of Plant Varieties and Farmers' Right Act, 2001.

Meetings conducted by the IPR Cell in last three years with major recommendations.

Important meetings on IPR in the last three years are as follows:

Sl. No.	Date of meeting	Venue	Issues/ topics related to meeting	Resolutions/major recommendations of the meeting
1.	11-8-2017	Baudhik Sampada Bhawan, New Delhi	Consultative Group Meeting of "Komal chaul of Assam (Chokuwa rice of Assam)"	The applicant and facilitating institute (AAU) were asked to submit amended application for "Komal chaul of Assam (Chokuwa rice of Assam)"
3.	30-1-2019	Baudhik Sampada Bhawan, New Delhi	Consultative Group Meeting of "Phulam Gamusa", "Komal chaul of Assam (Chokuwa rice of Assam)" and "Assam lemon"	The applicant and facilitating institute (AAU) were asked to submit the examination report for "Phulam Gamusa", "Komal chaul of Assam (Chokuwa rice of Assam)" and "Assam lemon"

3.	11-7-2019	Baudhik Sampada Bhawan, Kolkata	Consultative Group Meeting of “Judimaa”, “Komal chaul of Assam (Chokuwa rice of Assam)” and “Phulam gamosa”	The applicant and facilitating institute (AAU) were asked to submit the examination report for “Judima”. Hearing took place for “Komal chaul of Assam (Chokuwa rice of Assam)” and “Phulam gamosa”
4.	07-1-2021	AAU, Jorhat, Assam	Meeting with Hon’ble DCM of Arunachal Pradesh and other dignitaries regarding execution of MoU with AAU.	The facilitation process to file GI application of three products of AAU would commence immediately after the signing of MoU between Govt. of Arunachal Pradesh and AAU.

Technology Management Unit

Assam Agricultural University has constituted a “Technology Management Unit” functioning with the following members Chairman of the unit being the Vice Chancellor of Assam Agricultural University.

Vice Chancellor, AAU, Jorhat	Chairman
Registrar, AAU, Jorhat	Member
All Deans/ Associate Deans and Academic Directors, AAU, Jorhat	Member
Comptroller, AAU, Jorhat	Member
Chief Librarian, AAU, Jorhat	Member
University Legal Retainer	Member
Deputy Registrar, PPV &FR authority, Guwahati Branch	Member
Representative of the private sector nominated by the VC, AAU, Jorha	Member
All members of IPR Cell	Member
The In-charge IPR Cell	Member secretary

Date of the meetings conducted by the Unit with the major recommendations

Date	Venue	Major recommendations
22-03-2021	VC conference room	• At the time of execution of MoU with the prospective buyers, there should be a clear provision describing the <i>locus standi</i> of AAU in the event of violation of terms and conditions of the MoU. • Poly herbal ointments should be prepared and sold through AAU clinics. • Dr. P. K. Barua, Dr. C. Hazarika and Dr. Badal Bhattacharjee were entrusted to prepare a business model for technology commercialization. • Standard format of MoU should be prepared and published in the public domain. • There should be at least one meeting of AAUTMC in every 6 months.

6.6.3.7 Central Instrumentation Unit (CIU)

Is there a Central Instrumentation Unit in place? What are the facilities available in the unit?

Yes. The University has separate CIU which was established in the year 2006 in the Department of Agricultural Chemistry and Bio-chemistry, AAU, Jorhat. The aim of establishing this Unit is to provide facilities to students for pursuing their Masters and PhD level research programs. In August, 2019 this lab was shifted to DBT-AAU Centre/Department of Agricultural Biotechnology under the supervision of Director, DBT-NECAB.

Facilities

Sl. No	Name of the Instrument
1.	Gel Documentation System
2.	Digital Spectrophotometer
3.	Six Sensor Flue Gas Analyzer
4.	Fluorescence Spectrophotometer
5.	Fluorescence Microscope
6.	RTPCR
7.	Refrigerated Centrifuge
8.	Spectrophotometer(2700)
9.	Autoclave
10.	Digital Camera
11.	FTIR
12.	HPLC
13.	Microwave Digestion System

6.6.3.8 Global Support: Does the University maintain functional expertise in a range of administrative areas to provide technical advice and guidance in the areas of exchange programmes, visa related issues, International MoUs, Collaborative research etc.

The DBT-North East Centre for Agricultural Biotechnology (DBT-NECAB) of the University, Jorhat is a Centre of Excellence for agri-biotechnological research in NE India. Collaborative research has been a fundamental key to the success of the centre. The Director of the Centre, has established several National and International collaborations which has not only supported scientific research but also aided in Capacity Building. Here is a list of his international assignments that has helped towards guiding several students and faculty members to avail prestigious fellowships such as Norman Borlaug Fellow, AdaptNET training ERASMUS+, etc.

Sl. No	Name of International body	Funding Agency	Nature of Experience	Period
1.	AdaptNET project of ERASMUS+ Agricultural University of Athens (AUA), Greece University of Milano (UMIL), Italy; Academy of Athens (AA), Greece; Polytechnic University of Marche (UNIVPM), Italy	The Education, Audiovisual and Culture Executive Agency (EACEA), ERASMUS+, European Union	Indian Coordinator of AdaptNET project ‘Strengthening education, research and innovation for climate smart crops in India.’	2018 onwards
2.	Indo-UK “Pulses and oilseed research initiative programme”	BBSRC, UK and DBT, GoI	Panel Member	2018-present
3.	CSIRO Agriculture and Food, Canberra	The ACIAR, Canberra	Visiting Scientist	May 2018 – Jun 2018
4.	Agricultural University of Athens, Greece	Erasmus Mundus programme of EU (Under BRAVE programme of European Union)	Staff Scientist	Oct 15 – Nov 30, 2015
5.	AgroscopeReckenholz-Tanikon ART, Zurich and ETH Zurich, Switzerland	Indo-Swiss Biotechnology Programme partner	Visiting Scientist	Jul 2012
6.	CSIRO Plant Industry Canberra, Australia	AISRF project	Visiting Scientist	Mar 2009
7.	Washington State University, Pullman, WA	(Invited by the WSU, USA)	Visiting Faculty	Aug 2006 – Nov 2006
8.	CSIRO Plant Industry Canberra, Australia	Indo-Swiss programme	Visiting Scientist	Apr 2005 – Sept 2005
9.	Friedrich Miescher Institute, Basel, Switzerland	Indo-Swiss Collaboration in Biotechnology (Phase I)	Visiting Scientist	Oct 2001 Mar 2002

10.	Friedrich Miescher Institute, Basel, Switzerland	Indo-Swiss programme	Visiting Scientist	Oct 2001 – Mar 2002
11.	CSIRO Plant Industry Canberra, Australia	McKnight Foundation, USA)	Postdoctoral Fellow	Oct 1997 - July 1999
12.	Institute of Biological Chemistry, Washington State University, Pullman, USA	Fellowship: McKnight Foundation, USA	Postdoctoral Fellow	May 1997 - Oct 1997

The Centre has had the following International collaborations as a result.

Collaborating organization	Programme/Project	Funding organization	Collaborator(s)
Ad hoc projects (completed)			
Washington State University, USA	Genetic improvement of chickpeas for increased productivity	The McKnight Foundation, USA	Professor T W Okita and Professor Fred Muehlbeaur
Friedrich Miescher Institute, Basel, Switzerland	Agrobacterium mediated genetic transformation of chickpeas to confer protection against pod borers and stored grain pests	Indo-Swiss Collaboration in Biotechnology (Phase I)	Professor Thomas Hohn and Professor Barbara Hohn
CSIRO Agriculture and Food, Canberra	Development of transgenic chickpeas (<i>Cicer arietinum</i>) resistant to pod borer (<i>Helicoverpa armigera</i>)	- do - (Phase II)	Dr T J V Higgins
ICRISAT, Patancheru	- do -	- do - (Phase III)	DR K K Sharma and Dr H C Sharma
	Genetic Enhancement of chickpeas using a two gene strategy to confer protection against pod borers	Indo-Australia Strategic Research Fund	- Do -
ICRISAT, Patancheru	- do -	- do -	Dr H C Sharma
Southern Cross University, Australia	Collaborate and share experimental information pertaining plant genetics and genomics including genetic and genomic analysis of <i>Brassica juncea</i> (Indian mustard)		
	Establishment of Genetic transformation system for pigeonpea (<i>Cajanus cajan</i>) for the deployment of gene technology including insect protection	Kirkhouse Trust, UK.	Dr T.J. Higgins

Ongoing Collaborations			
Tezpur University (TU) International Crops Research Institute for Semi-Arid Tropics (ICRISAT) University of Agricultural Sciences Dharwad (UASD) Agriculture University of Athens, Greece; University of Milano, Italy; Polytechnic University of Marché, Italy; Academy of Athens, Greece	AdaptNET project of ERASMUS+ “ <i>Strengthening education, research and innovation for climate smart crops in India</i> ”	The EACEA, European Union	Dr Deben Baruah Dr Rajeev Varshney Dr I S Katageri Dr Andreas Voloudakis Dr Carlo Pozzi Dr Roberto Papa
University of California, Davis	Understanding the relationship between plant and insect (<i>Helicoverpa</i>) genetics and plant metabolite production due to insect pressure	The Dept. of Biotechnology, GoI, New Delhi.	Prof. Douglas R Cook

6.6.4.1 Extension Council: Mention the present composition of the Extension Council and provide the dates of meetings in last five years in tabular form.

Though the University has no separate Extension Council at present but there exist a Directorate of Extension Education to look after all the extension related activities like - advisory services, training and skill development, demonstration & transfer of technology, farm information & publication, and entrepreneurship development to boost up the agricultural production and self employment. Proven/ tested technology percolation down to the doorstep of farmers and other stakeholders to mitigate farm and farmers stresses is the collective/mandated responsibility of the Directorate. The Extension Directorate also keeps close contact with the ICAR extension system and State Government agencies through conferences and meetings from time to time. Apart from above, Zonal Research and Extension Advisory Committee (ZREAC) for each of the six agro-climatic zones of Assam is in force with teachers/scientists of the university (including KVKs) from the concerned zone, senior officials from the state Department of Agriculture and other Allied departments, input agencies and selected farmers from the zone as its members to provide advisory services in prioritized areas of research and extension. The researchable issues emanated from the farmers-scientist-officer interactions in areas of agriculture and allied sectors are identified on priority basis for each zone which after due approval from the committee is forwarded to pursue research under departmental technical committee to find and resolve the issue amicably. The Directorate altogether has 23 KVKs spread across the length and breadth of the state and to provide necessary guidance and support to carry out the mandated activities of KVKs in a holistically planned and scientific manner, a high level Scientific Advisory Committee (SAC) committee is operative in each KVK the functions and responsibility of which is similar with the extension council being operative, if any, in other institutions.

The composition of the SAC is furnished herewith:

1. The Vice Chancellor, AAU, Jorhat	Chairman
2. Director of Extension Education, AAU, Jorhat	Member
3. Director, ATARI, Barapani, Umium	Member
4. The District Agriculture/ Veterinary/ Fishery/ Sericulture	Member
5. The Executive Engineer, Irrigation department, Assam	Member

6. Lead Bank Officer	Member
7. The Project Director, DRDA	Member
8. The Chief Scientist, RARS of respective Zone	Member
9. Associate Director of Extension Education	Member
10. Extension Coordinator, ATMA	Member
11. Officer from AIR/ Doordarshan	Member
12. Head, KVK	Member Secretary
13. Farmers' representative	Member
14. Women farmer	Member

Schedule of Scientific Advisory Committee (SAC) meetings of KVKs (2016-17 to 2020-21)
under AAU

Sl. No.	KVK	Year-wise date of SAC meeting held				
		2016-17	2017-18	2018-19	2019-20	2020-21
1.	Baksa	27.03.2017	26.03.2018	08.01.2019	28.03.2020	12.03.2021
2.	Barpeta	27.03.2017	06.03.2018	09.01.2019	05.03.2020	17.03.2021
3.	Bongaigaon	09.03.2017	06.02.2018	28.12.2018	19.03.2020	25.02.2021
4.	Cachar	07.03.2017	27.03.2018	11.12.2018	11.02.2020	12.02.2021
5.	Chirang	10.03.2017	05.02.2018	28.12.2018	19.03.2020	08.03.2021
6.	Darrang	28.03.2017	05.03.2018	07.01.2019	18.03.2020	10.03.2021
7.	Dhemaji	16.03.2017	16.02.2018	03.01.2019	23.03.2020	08.03.2021
8.	Dhubri	09.03.2017	06.02.2018	27.12.2018	18.03.2020	25.02.2021
9.	Dibrugarh	22.03.2017	20.03.2018	18.12.2018	26.03.2020	05.03.2021
10.	Golaghat	14.03.2017	23.03.2018	21.12.2018	05.02.2020	25.03.2021
11.	Jorhat	23.03.2017	21.03.2018	20.12.2018	21.03.2020	24.03.2021
12.	Kamrup	29.03.2017	05.03.2018	13.12.2018	28.03.2020	18.03.2021
13.	Karbi Anglong	14.03.2017	23.03.2018	22.12.2018	24.03.2020	03.12.2020
14.	Karimganj	07.03.2017	28.03.2018	10.12.2018	10.02.2020	11.02.2021
15.	Kokrajhar	10.03.2017	05.02.2018	26.12.2018	18.03.2020	17.02.2021
16.	Lakhimpur	16.03.2017	17.02.2018	03.01.2019	24.03.2020	09.03.2021
17.	Morigaon	30.03.2017	07.02.2018	13.12.2018	17.03.2020	13.03.2021
18.	Nagaon	15.03.2017	07.02.2018	24.12.2018	04.03.2020	16.03.2021
19.	Nalbari	29.03.2017	06.03.2018	08.01.2019	17.03.2020	12.03.2021
20.	Sivasagar	23.03.2017	21.03.2018	20.12.2018	16.03.2020	09.03.2021
21.	Sonitpur	15.03.2017	21.02.2018	24.12.2018	19.03.2020	10.03.2021
22.	Tinsukia	22.03.2017	20.03.2018	18.12.2018	26.03.2020	04.03.2021
23.	Udalguri	28.03.2017	21.02.2018	07.01.2019	18.03.2020	05.03.2021

6.6.4.2.Directorate of Extension Education:

Give brief information about the present establishment of the Directorate of extension education, staff pattern, KVK and other off-campus extension programmes, extension coordination mechanism, extension and technology dissemination system and contribution in academic programmes.

6.6.4.2.1 Brief information about the present establishment of the Directorate of Extension Education

The University has a full-fledged Directorate of Extension Education with its Head Quarters at Jorhat campus to look after extension education programmes of the University. The Directorate headed by the Director has two Associate Directors of Extension Education (ADEE) at Jorhat and one ADEE at Khanapara campus, 3 Senior Extension Specialists and one Extension Specialist supported by other staff members. University's extension education programmes are spread across the state with a network of one Agricultural Technology Information Centre (ATIC), a Publication and Information Unit in the head quarters and 23 Krishi Vigyan Kendras (KVKs) distributed over the state. Through periodical interactive meets and capacity building programmes, the Directorate is regularly reviewing the KVK activities for agenda setting and course correction of the extension programmes and updating and upscaling the knowledge and skill base of the KVK personnel. With needed help and support of domain experts, the Directorate is guiding the KVKs in preparing extension training curriculum and organizing capacity building programmes for extension personnel, farmers and potential entrepreneurs and is also guiding the KVKs in conducting technology application research with participation of farmers and demonstrating to the farmers and other stakeholders the strengths and usefulness of specific innovations and technologies and technology led production and post-production systems in collaboration and convergence with the line departments and other players in the fields. In collaboration with the Departments of Agriculture, Veterinary, Fishery, Sericulture and other allied departments of the Government of Assam and in liaison with various promotional institutions and organizations of the Government of India, the Directorate, through the above well-organized network, is striving to improve the agrarian economy of Assam.

The ATIC is an important unit of the Directorate which serves as a single-window delivery system for technological solutions and technology inputs for the farmers and other stakeholders. This acts as the doorstep to the departments and experts of the University for all, whoever visit the University asking for solutions to their specific problems.

Publication and Information Unit, headed by the ADEE(P&I) is responsible for publication of the AAU Newsletter enlisting the significant developments happening in the University and a biweekly bulletin in Assamese providing the practicing farmers valuable information and guidance on different aspects of agriculture. The Unit with a modern press provide valuable service to the teachers and scientists and also to different offices by printing books, booklets, bulletins, practical manuals, reports and different other documents.

4.2.2 Staff Pattern of the DoEE

Table: Staff Position of Directorate of Extension Education

Designation	In position
Director of Extension Education	1
Associate Director of Extension Education (Training)	1
Associate Director of Extension Education (Printing & Information)	1
Associate Director of Extension Education (Khanapara)	1
Senior Extension Specialist	4
Junior Extension Specialist	2
Manager, ATIC	1
Assistant Editor	1
Officer staff	1
Establishment staff	8
Accounts staff	5
Field/Technical Staff	17
Grade IV Staff	15
MR worker	7
Fixed pay worker	7
	72

Table: Staff Position of KVKs

Cadre	Designation	In position
Head of KVK	Sr. Scientist & Head	20
Scientific staff	Subject Matter Specialist	119
Technical staff	Programme Assistant	22
	Programme Assistant (Computer)	22
	Farm Manager	22
Office staff	Office superintendent cum Accountant	22
	Junior Stenographer cum Computer Operator	19
	Driver cum Mechanic	45
	Supporting staff (Gr. IV)	34

Total number of KVKs in the State = 23

4.2.3 KVK and other off-campus extension programmes

Table: Summary of year-wise trainings conducted by KVKs

Year	Farmers/ Farm women		Rural Youth		Extension Functionaries		Total	
	No.	No. of participants	No.	No. of participants	No.	No. of participants	No.	No. of participants
2015-16	890	24939	287	7499	72	1737	1249	34175
2016-17	1054	27825	298	6612	82	3174	1434	37611
2017-18	601	17006	243	6449	91	2149	935	25604
2018-19	933	28115	284	7397	107	2436	1324	37948
2019-20	901	25617	339	8474	106	2860	1346	36951
Total	4379	123502	1451	36431	458	12356	6288	172289

Table: Summary of Sponsored trainings conducted by KVKs

Year	Duration (in days)	No. conducted	No. of participants
2015-16	285	167	7191
2016-17	3	4	260
2017-18	259	131	3886
2018-19	310	98	2821
2019-20	942	251	6104
Total	1799	651	20262

Table: Summary of Vocational trainings conducted by KVKs

Year	Duration (in days)	No. conducted	No. of participants
2015-16	369	103	2637
2016-17	84	48	1246
2017-18	951	189	4797
2018-19	592	122	3207
2019-20	696	130	2967
TOTAL	2692	592	14854

Table: Summary of Awareness Programmes conducted by KVKs

Year	No. of programmes	Number of beneficiaries							
		Farmers		Rural Youth		Officials		Total	
		Male	Female	Male	Female	Male	Female	Male	Female
2015-16	24	942	348	462	178	81	49	1485	575
2016-17	84	6057	2178	1404	477	246	104	7707	2759
2017-18	112	6324	2154	1880	604	381	131	8585	2889
2018-19	94	5073	2897	4812	1351	553	1302	10438	5550
2019-20	157	6427	3648	1661	908	602	1244	8690	5800
Total	471	24823	11225	10219	3518	1863	2830	36905	17573

Few Thematic Areas covered in the Awareness Programmes:

Agricultural technologies, Agricultural credit system, Agriculture Marketing, Animal Science, Apiculture, Climate change, KCC and Crop Insurance, PMFBY, Soil Health & Soil Testing, Biocontrol of pests & diseases, Banking Finance, Bee keeping, Breed Improvement, Community Science, Environmental Conservation, Contingency planning, Coordination/ Convergence/ Linkages promoted/ created, Dairy Management, Farmer rights and awareness, Biodiversity, Fishery Management, Jai Kissan Jai Vigyan, mAIP mobile solution, PPV&FR Act 2001, Petroleum conservation, Bioinput Production, Swachhta Hi Seva campaign, Women empowerment, World Soil Day, *Gramin Kisan Mausam Sewa*, Group dynamics, Household food security by kitchen gardening and nutrition gardening, Human nutrition, *Jal Shakti Abhiyan*, Large scale plantation programme, Mushroom cultivation, Organic Farming, Parthenium Awareness week, *Poshan Abhiyan*

Technology testing and demonstration

During the reporting period, a total of 1629 OFTs and 2187 FLDs were conducted by the KVKs across the state. The number of participating farmers in these programmes were 7920 and 26630, respectively. Thirty-two Self help Groups and 5 NGOs were also involved in these programmes. The year wise number of OFTs and FLDs conducted are depicted in Fig. 2 and 3.

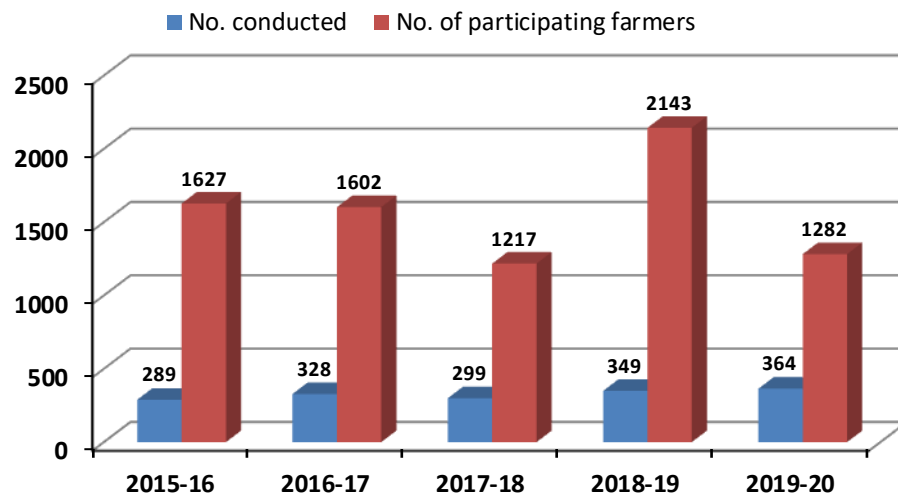


Fig. 2. OFTs conducted by KVKs in farmers' field

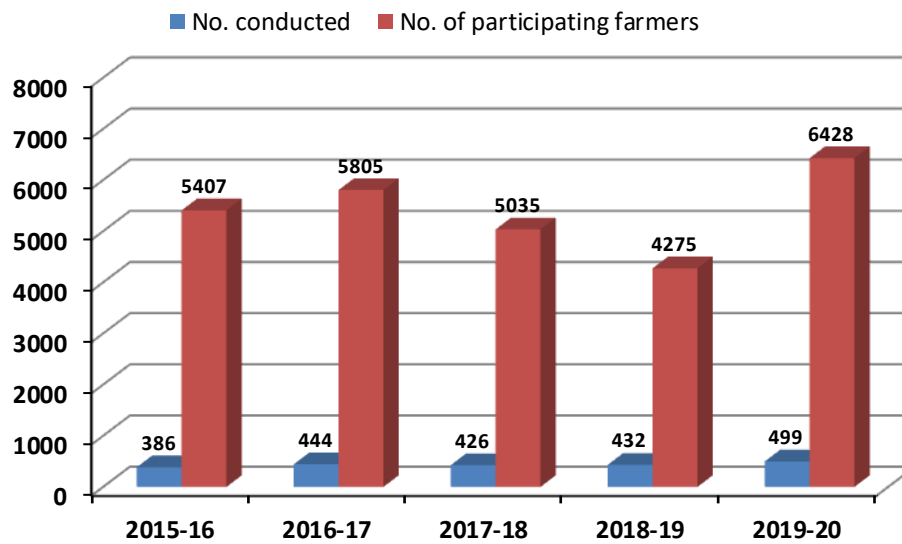


Fig. FLDs conducted by KVKs in farmers' field

Villages adopted by KVKs

During the last five years, a total of 458 villages have been adopted, wherein frontline agricultural technologies are being demonstrated adequately aided with capacity building programmes and community mobilization efforts.

Table: Summary of villages adopted by KVKs

Year	No. of Adopted villages
2015-16	57
2016-17	92
2017-18	99
2018-19	96
2019-20	114
Total	458

Cluster Front Line Demonstrations (CFLDs)

The main objective of cluster front line demonstration is to increase the production of a crop variety through improved crop management practices. The newly developed and innovative technology having higher production potential under a specific cropping system can be popularised through the demonstration programme. It is therefore, an appropriate means for demonstration as well as transfer of improved agricultural innovations to the farming community. It provides an opportunity to researchers and extension personnel for understanding the farmers' resources and requirements to modify the technologies for early adaptability at farmer's field.

Table: Summary of CFLD (Oilseeds) conducted during the reporting period

Year	Total no. of Demos.	Total Area Covered (ha)	No. of Farmers Covered	Crops Covered	KVKs covered
2015-16	1984	975	2261	Rapeseed & Mustard, Sesamum Groundnut, Linseed Niger	All 23 KVKs under AAU
2016-17	1159	850	2154		
2017-18	4094	1720	3058		
2018-19	1948	1065	2704		
2019-20	2886	1781	3951		
Total	12071	6391	14128		

Table: Summary of CFLD (Pulses) conducted during the reporting period

Year	Total no. of Demos.	Total area Covered (ha)	No. of farmers Covered	Crops Covered	KVKs Covered
2015-16	1342	631	1050	Blackgram, Chickpea, Field Pea, Greengram, Lathyrus, Lentil, Pea, Rajmah	All 23 KVKs under AAU
2016-17	1798	982	2864		
2017-18	3154	1253	3057		
2018-19	2238	1070	2468		
2019-20	1595	763	2427		
Total	10127	4699	11866		

Pulses Seed Hub

The ICAR has selected five KVKs under AAU for Pulse Seed Hub for seed production of pulses to make the State self sufficient in pulses seeds. The KVKs selected for Pulse Seed Hub Programme are Jorhat, Lakhimpur, Kamrup, Karimganj and Nalbari. During 2015-16 to 2019-20, altogether 7926.29 q seeds of different pulses varieties have been produced in the farmers' field covering total area of 1295.72 ha with farmers' active participation with revenue generation of more than Rs. 63,84,022.00.

Table: Summary of Pulses Seed Hub

Year	Area (Ha)	Production (q)
2017-18	576.99	2908.73
2018-19	280.73	1862.31
2019-20	438.00	3155.25

Other Extension Activities

Extension Activity	2015-16		2016-17		2017-18		2018-19		2019-20	
	Nos.	Benef.	Nos.	Benef.	Nos.	Benef.	Nos.	Benef.	Nos.	Benef.
Advisory Services	1918	68781	381	108837	2804	209588	3009	235744	6858	101317
Animal Health Camp	10	567	13	1107	36	3798	18	515	36	2467
Awareness Camp	26	1213	34	3339	85	8573	79	4084	119	8531
Celebration of important days	112	5848	42	3968	233	37830	225	18205	258	16523
Consultancy Services Offered	-	-	-	-	432	1203	451	1008	2877	1968
Diagnostic visits	925	1898	190	748	1194	8162	953	2923	1215	3612
Extension literature	6	1000	20	439	45	2251	46	743	109	Mass
Farm Advisory Services	863	43738	1019	64572	1414	83430	1391	59973	1714	89760
Farm Science Club Conveners meet	-	-	-	-	1	17	12	2277	1	22
Farmers' Scientist Interaction	57	4650	24	1739	62	2881	56	2570	131	7067
Farmers Seminar/workshop	-	-	-	-	17	1535	15	15681	30	2376

Farmers Visit to KVK	-	5581	-	6784	-	10816	-	13103	-	17529
Field Day	78	3071	33	2096	174	7192	169	27710	218	8065
Film show/Webcasting	10	794	15	2161	72	10838	46	1903	78	7936
Formation of FPCs	-	-	-	-	-	-	-	-	-	-
Formation of SHGs	17	224	3	36	12	232	19	280	2	20
Group meetings/ Discussion	73	794	24	385	148	2374	117	1300	141	2153
Kisan Gosthi	-	-	-	-	2	257	9	317	2	229
Leaflets/folders	12	4500	15	4000	25	5769	10	-	55	Mass
Lectures Delivered	224	5582	103	2467	537	15644	381	5843	489	13112
Mahila Mandal Meetings	-	-	-	-	2	52	-	-	1	20
Method Demonstrations	60	678	76	1773	293	13470	194	3446	265	5647
Newsletter	-	-	7	-	12	-	15	-	18	-
Phone in/Help line programme	-	-	-	-	2919	3933	19752	320320	27903	495820
Popular Article	17	-	-	-	7	-	-	-	-	-
PRA Exercise	38	1568	19	731	54	1322	38	938	38	1373
Radio Talk	55	-	27	-	67	-	46	-	82	-
Abstract Published	-	-	-	-	3	-	-	-	-	-
Research Papers	14	-	6	-	60	-	37	-	60	-
Book Published	-	-	-	-	2	-	-	-	-	-
Booklet Published	-	-	-	-	2	-	-	-	-	-
CD publication	1	-	3	-	23	4	4	-	7	250
Scientists visit to farmers field	1790	2649	467	1040	2662	7499	2481	6599	2832	11582
Soil health/ testing Campaigns	264	1157	28	2177	303	4780	34	1942	44	1674
Technical bulletins	7	1400	7	-	29	1700	21	-	69	Mass
Technical report/ article	20	-	9	-	104	-	72	-	76	-
Training/ practical manual	6	-	77	2069	114	-	29	250	10	876
TV Talks	33	-	2	-	16	-	29	-	93	-

Table: Summary of Kisan Mela organised by KVKs

Year	No. of Kisan Mela	No. of participants		
		Male	Female	Total
2015-16	16	1441	579	2020
2016-17	22	5193	1714	6907
2017-18	19	2036	1162	3198
2018-19	20	8096	6779	14875
2019-20	13	4043	2046	6089
Total	90	20809	12280	33089

Table: Summary of Exhibitions Organised by KVKs

Year	No. of Exhibitions Organised	No. of Visitors
2015-16	18	2386/mass
2016-17	72	34670/mass
2017-18	68	28843/mass
2018-19	33	21138/mass
2019-20	41	29176/mass
Total	232	116213/mass

Table: Summary of Exposure visits organised by KVKs

Year	No. of Visits	No. of beneficiaries		
		Male	Female	Total
2015-16	11	1465	380	1845
2016-17	14	778	330	1108
2017-18	31	1122	625	1747
2018-19	43	1251	488	1739
2019-20	84	2897	938	3835
Total	183	7513	2761	10274

Soil Health Card Programme

This is one of the Flagship Programme of GoI being undertaken by the different KVKs under the University. With implementation of this programme the KVK scientists have been able to prescribe to the farmers soil test based fertilizer doses thereby aiding the farmers reduce their fertilizer cost and addressing the issue of indiscriminate fertilizer use in certain locations. The year-wise progress in the analysis of soil samples and distribution of Soil Health Cards are depicted in table below.

Table: Soil Health Cards Distributed by KVKs

Year	No. of SHC Distributed
2015-16	5888
2016-17	38092
2017-18	11500
2018-19	7780
2019-20	6497
Total	69757

Farm production activities:

Table: Seed and Planting Material Produced

Year	Technological Products	Quantity produced	Value of the quantity produced (Rs.)
2015-16	Seed material (q)	1729.11	15,01,740.00
	Planting material (nos.)	128789	2,57,852.00
	Bio-inputs (q)	692.33	4,05,274.50
	Livestock (nos.)	3870	4,78,045.00
	Fingerling (nos.)	2,00,000	9,523.00
2016-17	Seed material (q)	1842.65	21,96,503.00
	Planting material (nos.)	169844	5,51,375.00
	Bio-inputs (q)	245.15	4,44,703.00
	Livestock (nos.)	4341	6,89,965.00
	Fingerling (nos.)	200134 + 67 kg	7,865.00
2017-18	Seed material (q)	2966.938	22,71,576.00
	Planting material (nos.)	244698	4,30,174.00
	Bio-inputs (q)	329.2	9,30,376.00
	Livestock (nos.)	4185	734701.00
	Fingerling (nos.)	279550	11,195.00
2018-19	Seed material (q)	2383.948	34,90,978.00
	Planting material (nos.)	202458	7,33,055.00
	Bio-inputs (q)	626.39	12,96,677
	Livestock (nos.)	6857 nos. + Milk 1010 ltr + Egg 15063 nos. + Fish 0.85q	10,54,656.00
	Fingerling (nos.)	102277+73 Kg	11,000.00
2019-20	Seed material (q)	2154.85	44,74,888.00
	Planting material (nos.)	262468	10,50,884.00
	Bio-inputs (q)	924.744	12,27,467.40
	Livestock (nos.)	8509nos. + Milk 891.49 ltr + Egg 11615 nos.+Fish0.46q	9,63,238.00
	Fingerling (nos.)	128000	12,156.00

Table: Bio-input Production

Year	Qty. Produced (Kg)	Qty. Sold (Kg)	Revenue earned (Rs.)	Farmers benefitted
2015-16	12030.98	10491.98	392003	1346
2016-17	45598.93	25066.43	502062	648
2017-18	64361.65	63362.15	925413	1494
2018-19	101977.7	71756.65	1380271	1166
2019-20	106632.1	86990.14	1534971	1520

Demonstration under NEH component

Under this component, during 2019-20 an area of 810.01 ha was covered benefitting 4084 farmers and the various crops cultivated were Assam Lemon, Banana, Black Pepper, Blackgram , Bottlegourd, Brinjal, Cabbage , Carrot, Cauliflower, Chilli, Flax (Fibre type Linseed), French bean, Garden pea, Greengram, Groundnut , Lentil, Maize, Okra, Onion, Paddy, Pea, Potato , Radish, Rajmah, Rice, Sponge gourd, Tomato and Toria.

ICTs in Agriculture

- The use of ICT as a delivery mechanism aids in the transfer of latest technologies to the end users for increasing production and productivity. Moreover, the websites also serve to create awareness and knowledge and also to build farmers' attitudes towards adopting new technologies and new ways of life.
- All Krishi Vigyan Kendras have their own websites for dissemination of information on agriculture and allied activities thereby bridging the gap between the KVK and the farming community.
- The KVKs are continuously updating information in a day to day basis in the KVK, Portal of ICAR and sending advisories to farmers through the mKisan portal of Govt. of India.
- All 23 KVKs have been regularly sending messages through bulk SMS service to contact farmers about specific technology, contingency plan and protection measures to be taken.

KVK Websites – 23 nos., KMAS messages nos. 3143 with beneficiaries 36,00,304 nos., Mobile apps: 9 nos., Software (Soil Health Card Generator) – 1, AIP Mobile Solutions - 16602 numbers of farmers were registered and solutions for 2073 numbers of problems were provided.

Farmer Producing Organization (FPO) established

KVK	No. of FPOs formed	Name of FPOs
Bongaigaon	2	Manah Organic Producer Company
		Manikpur Vegetable Producer Company
Baksa	3	Bwrlia Farmers Producer Company Ltd.
		Deujora Agro Producer Company Ltd.
		Baksa Beekeepers and Agro Producer Co. Ltd.
Karbi Anglong	1	FPO at Bokajan funded by NABARD
Nagaon	5	Luitporia Agro Producers Company Ltd
		Brahmaputra Anchalik farmers Agro Producers Company Ltd
		Rowmari Agro Producers Company Ltd

		Patiachapari Agro Producers Company Ltd
		Langia Farmers Agro Producers Company Ltd
Chirang	1	Burwidwisa Agro Producer Company Ltd
Sivasagar	1	Shree Krishna Utpadonmukhi Krishok Shantha, Sologuri

Apart from the above, Assam Agricultural University has been empanelled as Cluster Based Business Organization (CBBO) for promotion of 100 Farmer Producer Organizations (FPOs) within the stipulated periods from 2021-22 to 2025-26 by NABARD. Programs allocated for implementation of the CSS on formation and promotion of FPOs for the period 2020-21 is highlighted below:

Name of the CBBO : Assam Agricultural University, Jorhat

Sl. No.	District	Programme Area (Name(s) of the Block(s)/ Mandal(s)/ Gram Panchayat(s)/ Village(s))	Identification Focus Crop(s)/ activities in the Cluster	No. Of FPOs to be promoted
1.	Lakhimpur	Lakhimpur, Bihpuria	Pumpkin/ Mustard	2
2.	Tinsukia	Sodia, Kakopathar	Maize/ Organic Tea	2
3.	Dibrugarh	Tinkhong, Khoang	Orthodox Tea/ Pumpkin	2
4.	Sonitpur	Ghabharu, Balipara	Litchi/ Maize	2
5.	Darrang	Dalgaon, Bechimari	Vegetables	2
6.	Goalpara	Rongjuli, Balijana	Banana/ Pineapple	2
7.	Bongaigaon	Boithamari, Manikpur	Joha/ Boka rice	2
8.	Sivasagar	Amguri, Gourisagar	Scented Joha/ Red Rice	2
9.	Jorhat	Dhekargorah, Titabor	Vegetables	2
10.	Golaghat	Surapathar, Bokakhat	Vegetables	2

Custom Hiring Centers created

KVK	No. of CHCs
Barpeta	1
Darrang	1
Dhemaji	1
Dhubri	1
Golaghat	6
Dibrugarh	1
Karbi Anglong	2
Sivasagar	1
Morigaon	1

Custom hiring centre created under ATART

Sl. No.	KVK/RARS	District	Date of Opening
1	KVK, Nalbari	Nalbari	19/11/2019
2	KVK, Morigaon	Morigaon	23/12/2019
3	KVK, Karbi Anglong	K. Anglong	10/02/2020
4	KVK, Sivasagar	Sivasagar	12/06/2020
5	KVK, Jorhat	Jorhat	01/07/2020
6	KVK, Lakhimpur	Lakhimpur	23/07/2020
7	RARS, Diphu	K. Anglong	31/07/2020
8	KVK, Barpeta	Barpeta	02-09-2020
9	KVK, Darrang	Darrang	10-09-2020
10	KVK, Kamrup	Kamrup	9-10-2020*
11	KVK, Cachar	Cachar	30-09-2020
12	KVK, Dhubri	Dhubri	30-10-2020
13	KVK, Sonitpur	Sonitpur	04-12-2020

Custom hiring Centre created under TSP

Sl No	District and Block	Village	Year of establishment
1	Dima Hasao and New Sangbar block	Langmeklu village	May, 2017
2	Hojai and Udali block	Borboha	August, 2019
3	Kokrajhar and Kachugaon block,	Matkaigaon	February, 2017
4	West Karbi Anglong and Mukhim village	Kolonga village	April, 2019
5	East Karbi Anglong, Bokajan block	Sarihjan	December, 2016
6	Dhemaji, Bordoloni block	Abhaypur	January, 2017
7	Dhemaji Block: Sissiborgaon	1 No. Salakhani village	August, 2016
8	Baksa Block: Musalpur	--	2020-2021

Award and recognition

Year	Award	Award Type	Awarded To	Awarded By
2015	Rashtriya Atal Krishi Vigyan Puroskar	Institution	KVK, Jorhat	ICAR
	Jagjivan Ram Abhinav Kisan Puraskar (Zonal)	Farmer	Mr. Dhrubajyoti Barua under KVK, Dhubri	ICAR

2016	Best Extension Scientist Award	Faculty	Dr. R. Borgohain, Head, KVK, Jorhat	AAU, Jorhat
	IARI Innovative Farmer Award	Farmer	Mr. Dhrubajyoti Barua under KVK, Dhubri	IARI
	Jagjivan Ram Abhinav Kisan Puraskar (Zonal)	Farmer	Mr. Pankaj Kalita under KVK, Nalbari	ICAR
2017	Best Extension Scientist Award	Faculty	Dr. H.K. Bhattacharyya, Head, KVK, Dibrugarh	AAU, Jorhat
	Pandit Deendayal Upadhyay Antodaya National Agricultural Award	Farmer	Phoni Bora (Progressive farmer under KVK, Jorhat)	ICAR
	Best Poster Presentation award	Institute	Authors: Binita Konwar, G. Gogoi, M. Neog and H.C. Bhattacharyya	MOBILIZATION
2017	Best Paper Award	KVK, Dibrugarh	A.K. Sarma, H.K.Bhattacharyya, A.Barooah,M.Kachari, C.Thakuria,H.Saikia and A. Salam	MOBILIZATION
		KVK, Karbi Anglong	N. Kalita, S. Bhuyan, H. K. Deva Nath, M. Rongpharpi, P. Amonge, P. Basumatary & S. Maibangsa	
	Best paper presentation	KVK, Nalbari	Mayuri Bora, M Deka, Manabendra Bharali, Himadri S. Datta, Sonmoina Bhuyan Manashi Chakravarty, Afan Ali	
2017	Pandit Deen Dayal Upadhyay Krishi Vigyan Protshahan Puraskar (Zonal), 2016-17	Institution	KVK, Sonitpur	ICAR
2018	IARI Innovative Farmer's Award, 2018	Farmer	Fr. Samir Bordoloi	IARI
	Mahila Kisan Award, 2019	Farmer	Mrs. Padmawati Boro	Doordarshan, New Delhi
	Outstanding Innovators' Award, 2018	Farmer	Mr. Dipen Baruah	ICAR

2018	Outstanding contribution towards adoption and promotion on new technology in the field of Agriculture and Allied area during "State Level Farmers Fair for Doubling Farmers Income by 2022 in Assam: Technological Options and Way Forward" held during December 16-17, 2018 at HRS, AAU, Kahikuchi	Farmer	Mr. Gazeer Rahman, KVK, Bongaigaon	ICAR
2018	Innovative Farmers' Award-2018-19	Farmer	Shri Nishikanta Roy under KVK, Cachar	CAU Farmers' Science Congress-2018-19, CAU, Pasighat
2019	Lifetime Achievement Award on Agricultural Engineering	Head, KVK, Cachar	Dr. Pulakabha Choudhury, Head, KVK, Cachar	Allahabad University
2019	3rd in Poster Presentation	Farmer	Dinendu Roy under KVK, Cachar	CAU, Farmers Science Congress-2019-20, CAU, Imphal Manipur
2019	Best District Dairy	Farmer	Pradip Saikia under KVK, Nagaon	National Livestock & Poultry Show-2019
2019	Jagjivan Ram Abhinav Kisan Puraskar (Zonal), 2019	Farmer	Mr. Bipul Haloi under KVK, Nalbari	ICAR, New Delhi
2019	Deen Dayal Upadhyay Antodaya Krishi Puraskar (Zonal)	Farmer	Mr. Biju Kalita under KVK, Nalbari	ICAR, New Delhi
2020	IARI Innovative farmer Award 2020	Farmer	Mr. Phoni Bora under KVK, Jorhat	IARI, ICAR, New Delhi
2020	IARI Innovative farmer Award 2020	Farmer	Mr. Mridul Hazarika under KVK, Dibrugarh	IARI, ICAR, New Delhi
2020	Best Woman Scientist Award	Farmer	Dr. Sarodee Boruah, SMS (Pl. Protection), KVK, Tinsukia	Society of Krishi Vigyan

4.2.4 Extension coordination mechanism

There exists a well-defined mechanism in the University for coordination and management of the extension education programmes in keeping with the ICAR defined mandates and standing rules as well as AAU's own frameworks to carry out its mandates - teaching, research and extension education. Following the relevant provisions of the University Act and Statute the University has put in place a full-fledged Directorate of Extension Education headed by the Director in its Head Quarters at Jorhat campus to coordinate, administer and manage the extension education programmes of the University.

As per ICAR mandate, a Scientific Advisory Committee is constituted for each KVK with the Hon'ble Vice Chancellor as Chairman and Directors of Research and few other senior officials of AAU, representatives of the civil administration and districts heads of the line departments, representatives of banks, input agencies and NGOs and farmer representatives as members for assessing and reviewing the progress of their works and guiding them to chalk out their action plan for future. Besides, the KVKs receive feedback about the technologies being promoted by them and also about their extension achievements and weaknesses for course correction and future action plan from the Zonal Research and Extension Advisory Committees (ZREAC) which meets twice in a year as illustrated above. The action plans sorted out in the SAC meetings are finalized after presentation and discussion at the Annual Zonal Workshop organized by Agricultural Technology Application Research Institute (ATARI), ICAR which are then ready for execution with approval/endorsement by the National level Workshop of ICAR, New Delhi. Based on the overall guidance and considered decisions of the aforementioned committees and authorities the Director of Extension Education take necessary steps for approval and sanction of the proposals for the extension programmes and activities of the KVKs with needed assistance of the ADEEs and Extension Specialists. For constant monitoring and evaluation of the extension programmes and also for keeping the KVK scientists and other staff members updated with recent policy changes and initiatives and developments in the domain fields the Directorate regularly organize interactive meets and training sessions and compile information and reports. The progress of works and efficacy and correctness of activities in the fields are constantly monitored by the DoEE through regular visit and also through field inspection by the Monitoring Teams constituted by the Director of Extension Education.

4.2.5 Extension and technology dissemination system

As in case of coordination of the extension education programmes, the University adopts systematic approach for extension and technology dissemination also. Normally, the following steps are adopted by the KVKs for the stated purpose.

- Identification of problem and technological options for addressing specific issues and problems
- Assessment of the technology and also refinement, if and when needed

- Demonstration of the successfully tested technology for technology dissemination and horizontal spread
- Training of farmers for capacity building
- Training of extension functionaries for building field functionaries' capacity to provide advisory support and technology dissemination
- Organizing field day in the demonstrated plot to make the fellow farmers aware of the new technology and its benefits so that they get attracted to adopt it
- Advisory services through field visit, telephonic conversation, WhatsApp messages, mKISAN portal etc.
- Publication of bulletins, leaflets etc.
- Ex-trainee meets for sharing of experiences
- Exposure visit to successful farmers and relevant institutes etc.
- Single window support through ATIC

Methods of assessing extension education needs of the community:

The methods of identifying training needs, prioritization and finalization of programmes and monitoring system of extension activities are as follows.

Methods for assessing training needs

The methods of assessing training need are:

1. Survey, Participatory Rural Appraisal (PRA) and Rapid Rural Appraisal (RRA)
2. Bimonthly zonal workshops
3. Zonal Research & Extension Advisory Committees held for *kharif* and *rabi* seasons
4. Mobile solutions (Remote Crop management through e-extension)
5. Scientific Advisory Committee (SAC) meetings of KVKs
6. Review meetings of KVKs normally held bi-monthly
7. Assessment of training needs in each training programme.
8. Evaluation of training after each training programme
9. Need-assessment workshop
10. By making joint visits with ATMA officials

Preparation of Action Plan for KVKs

Heads of KVK along with KVK scientists prepare month-wise action plan on training, demonstration, on farm testing, Farmers' Day, Field Day, farmer-scientist interaction programme, Awareness programmes etc. for the entire year, which is approved in the Scientific Advisory Committee (SAC) Meeting and subsequently in the Zonal Workshop for KVKs (Zone VI and VII for NE Region).

Finalization of Annual Action Plan (KVKs):

The following steps are generally adopted for finalization of Annual Action Plan of the KVKs:

1. Annual Action Plan (AAP) is presented in Zonal Research and Extension Advisory Committee (ZREAC) Meeting at Regional Agricultural Research Stations (RARS) of respective agro-climatic zones and feedback is obtained.
2. The AAP is also presented in Scientific Advisory Committee meeting of each KVK.
3. It is finalized after presentation and discussion at the Annual Zonal Workshop organized by Agricultural Technology Application Research Institute (ATARI), ICAR, for the NE Region.
4. The Action Plan is accepted for necessary action after it is presented by the Director, ATARI at the National level workshop organized by the ICAR, New Delhi.
5. Based on the Annual Action Plan, individual proposals prepared by Subject Matter Specialists of KVK with detail of technical and financial considerations are examined by respective Heads of KVKs and are then further reviewed and approved by the Director of Extension Education.

Agricultural Technology Information Centre (ATIC)

The establishment of ATIC is intended to provide such facilities of information technology for dissemination to the farmers as a single windows delivery system. This service includes both to provide solution of location specific problems and make available all the technological information along with technology inputs and products. The main objectives of ATIC are:

- Providing diagnostic services for soil testing, plant and livestock health.
- Supplying research products such as seeds and other planting materials, poultry strains, etc. emerging from the institution for testing and adopting by various clientele.
- Disseminating information through published literature and communication materials as well as audio-visuals aids.

Table: Facilities available at ATIC

Facilities Available	No.
Exhibition / technologymuseum	1
Touch screenKiosk	1
Salescounter	1

Farm Advisory Services

Scientists involved in ATIC activities and other staff of the university provides technical guidance to the farmers through individual, farm and home visit, personal contact and correspondences. Similarly, farmers including farm women regularly visit to us for seeking

guidance in agricultural technology, animal production, live stock management, sericulture, home science and other farm problems and they are well attended by scientists/staff of the university. Scientists also respond to urgent call on farm problems encountered by Department of Agriculture, Veterinary, Fishery and Sericulture etc. A well knit liason also exists with different funding agencies such as NABARD, Nationalized Bank, DRDA etc.

Table: No. of farmers visited to ATIC

Year	No. of farmers		
	Male	Female	Total
2015-16	5,970	4,627	10,597
2016-17	2935	2375	5310
2017-18	4808	3366	8174
2018-19	5165	3307	8472
2019-20	4582	3423	8005
Total	23460	17098	40558

Table: Advisory Service provided to the farmers through ATIC

Period	Category of Information						
	Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
2015-16	478	387	401	698	8	78	56
2016-17	256	198	187	478	7	56	32
2017-18	301	298	265	445	8	65	47
2018-19	312	301	256	413	9	78	45
2019-20	22	46	46	24	0	45	26
Total	1369	1230	1155	2058	32	322	206

Table: Sale of technological inputs through ATIC

Year	Value of technological products sold
2015-16	3,58,320.00
2016-17	3,16,450.00
2017-18	1,92,650.00
2018-19	3,26,300.00
2019-20	2,48,550.00
Total	14, 42,270.00

4.2.6 Publication

The publication and information is the integral part of the extension education activities. The Assam Agricultural University Printing Press was established in 1978 with the objective to print different extension publications for farmers and field workers. The Directorate of Extension Education, Assam Agricultural University has been regularly publishing several bulletins, news letter, farm news paper, booklets, magazines laboratory/training manuals etc. During the reporting period the following publications are published in this directorate.

Table: Publications from DoEE, AAU

Type of publication	Numbers
AAU Newsletter	20
<i>Ghare Pathare</i> – fortnightly farm magazine	600
KVK Newsletter	19
Course Manual	3
Training Manual	41
Information Booklets	5
Book	8
Technical Bulletin	4
Advisory for KVKs during Lockdown	1
Advisory on Field Crops	2
Advisory on Horticultural Crops	2

4.2.7 Contribution in academic programmes

- The University has completed 26 certificate courses in 10(ten) different subjects *viz.* Apparel Designing & Construction, Tea Production Technology and Management, Aquaculture Production Technology, Poultry Production Technology, Master Goat Production, Cut Flower Production and Floral Design, Bakery, Diary Farming and Fodder Production, Dyeing and Printing of Textiles and Pig Farming.
- A total of 568 educated youth have completed the courses.
- Some of the trainees got employment in supervisory positions in small tea sector and also in corporate/ private sector as staff at field level. A few trainees have established enterprises on commercial basis and become self employed.
- Supervision of academic activities like Rural Agricultural Work Experience Programme (RAWEP) through KVKs to help the students primarily to understand the rural situations of the State.
- Development of vocational courses for college students other than agriculture to attract the rural youth towards agriculture aiming for self employment of the youths.

6.6.4.3 Extension Planning and Technological Impact

In what way the extension planning help to support enterprises in adopting and deploying new technologies and in commercializing innovation?

- Extension planning helps in identifying the technological needs as well as priority areas based on farmers preference and market demand
- Proper planning of technology assessment programme helps in studying the feasibility of the technology which can be promoted for adoption.
- Proper planning of technology demonstration helps in adoption of the technology and supports enterprises to get higher income
- Documentation of farmer's innovations, its validation and utilization for product development will help in commercialization of the technology.

What is the mechanism in place to study the technological impact?

To know the technological impact, scientists are continuously monitoring and collecting feedbacks either in person or through group meetings and organising field days. In such discussions, the strengths and weakness are elaborately pointed out by the participating farmers. Moreover, impact of the technologies is also judged through horizontal spread of the technologies in subsequent years. Different Participatory Appraisal tools are also used for studying the impacts of agricultural technologies.

Impact of AAU developed rice varieties due to the intervention by research and extension machineries

Sl No	Variety	Area (lakh ha)	% area adopted
1	Ranjit	7.10	59.17
2	Bahadur	1.85	15.42
3	Ranjit Sub 1	1.20	10.00
4	Gitesh	0.50	4.17
5	Shraboni	0.20	1.67
6	Aghoni/Keteki Joha	0.50	4.17

Impact of Technologies

- Technology adoption in recent times has been spectacular. Collective influence of AAU extension programmes along with state government's efforts resulted in record rice

production of 58.44 lakh tonnes in 2019-20, giving Assam a new identity in the national front.

- Quality seed production programme of AAU has also given an impetus to transform seed production scenario in Assam in fulfilling the requirement of the districts, thereby giving AAU a strong visibility in Assam in terms of supply of quality seed to farmers and showcasing frontline technologies. In order to augment seed production, AAU launched an ambitious programme ‘Technology Showcasing and Participatory Seed Production’ through eleven selected KVKs and produced 800 tonnes of foundation seeds and 1000 tonnes of certified seeds of paddy from an area of 700 ha during 2015-16. Almost similar amount of quality seeds were produced every year for last about one decade. Like rice seeds, a large quantity of seeds of pulses and oilseeds were also produced.
- Outreach of the extension system has led to the popularization of Frontline AAU technologies through 1629 OFTs, 6288 trainings and 26593 FLDs including CFLD, thereby benefitting through a spectacular yield increase in demonstration. The variety and technology have spread from farmers to farmers as evident from despatch of seeds by farmers involved in demonstration. Area expansion of major crops has been observed due to impact on knowledge and skill up-gradation of farmers through KVK intervention and providing effective linkages for input and credit delivery system. This has led to bringing self sufficiency in rice and productivity improvement in other field and horticultural crops.
- Popularization of submergence tolerant rice variety ‘Ranjit Sub 1’ in 755 villages covering 13725 farm families in 2017-18 with horizontal expansion to 2907 villages involving 54328 farm families in 2019-20.
- Popularization of HYVs of Toria ‘TS 36’ and ‘TS 46’ in the farmer’s field through demonstration programme starting from 2015-16 in 127 villages covering 839 farm families with horizontal expansion to 829 villages among 7082 farm families in 2019-20.
- Due to popularization and adoption of agricultural technologies in adopted villages of KVKs, there has been significant changes in farm income by 119% and 130%, respectively for marginal and small farmers.

a) Changes in farm income (Rs.)

Category	Average farm income (Rs.) 2016-17 (base year)	Average farm income (Rs.) 2019-20	Per cent increase over baseline
Marginal	24081	52851	119
Small	57675	132863	130
Semi Medium	171943	324391	89

b) Changes in total income (Rs.)

Category	Total income (Rs.) 2016-17 (base year)	Total income (Rs.) 2019-20	Per cent increase over baseline
Marginal	44405	78256	76
Small	62493	138886	122
Semi Medium	188143	344641	83

- Promotion of women centric activities like Value added Jute Product, Cutting & Tailoring, Textile Printing, Food processing & Preservation through vocational training for income generation.
- Low cost vermicomposting technology was initiated by KVKs in 99 villages covering 283 farm families during 2015 -16 through training and demonstration which has been adopted by the farmers in cluster approach in 463 villages covering 1718 farm families in 2019-20.
- Popularization and commercial production of Poultry (Breed – Kamrupa, Kadaknath, Rainbow Rooster, Country chicken & Sonali) through training, demonstration and arrangement of inputs.
- Introduction and popularization of improved duck breed “Khaki Campbell”, “Chera chambeli” and “Vigova super M” through training, demonstration and arrangement of inputs.
- Popularization and commercial production of Pig breed ‘Hampshire cross’ through training, demonstration and arrangement of inputs
- Mushroom production technology has been popularized through training and demonstration programme and this technology was adopted in 53 different villages covering 226 farmers during 2015-16 with the horizontal spread of the technology to 311 villages covering 2379 farm families in 2019-20.

Annexure I

Training, OFT, FLD programmes conducted through KVKs during 2015-16 to 2019-20

Sl. No.	KVK	Training		OFT		FLD	
		No. of Trainings	No. of Beneficiaries	No. of OFT	No. of Farmers	No. of Technologies	No. of FLDs/Farmers
1	Baksa	198	5110	48	131	79	384
2	Barpeta	242	6815	76	384	85	1511
3	Bongaigaon	316	7936	63	258	130	2188
4	Cachar	260	6439	57	178	72	484
5	Chirang	222	5326	66	486	108	2194
6	Darrang	244	7226	88	249	104	759
7	Dhemaji	375	9865	69	178	136	3700
8	Dhubri	233	5897	72	563	90	1210
9	Dibrugarh	399	12186	60	133	99	1018
10	Golaghat	409	12381	78	240	98	2098
11	Jorhat	233	6536	121	552	108	629
12	Kamrup	445	13438	79	223	154	2560
13	Karbi Anglong	229	6159	74	333	71	374
14	Karimganj	219	5789	62	296	73	578
15	Kokrajhar	311	7742	62	205	66	539
16	Lakhimpur	234	6938	69	535	81	709
17	Morigaon	240	6559	71	337	90	697
18	Nagaon	227	5677	55	849	59	388
19	Nalbari	226	6280	98	285	91	746
20	Sivasagar	196	5710	70	454	95	1305
21	Sonitpur	201	5643	51	147	77	367
22	Tinsukia	307	6607	68	203	97	587
23	Udalguri	322	10030	72	652	124	1928
Total:		6288	172289	1629	7871	2187	26593

6.6.4.4 Implementation of National Initiatives

Mention the status of implementation of Student Ready, green initiatives, Farmers First Scheme, Mera Gaon Mera Gaurav, NICRA and other similar schemes.

6.6.4.4.1 Status of implementation of Student Ready

Student READY programme has been implementing by Assam Agricultural University through its different constituent colleges. Under faculty of agriculture the programme comprises RAWEP, ELP and Industrial Attachment. Out of the 8 semesters of the 4-year UG Degree programme, the seventh semester is earmarked for Rural Agricultural Work Experience Programme (RAWEP). Under RAWEP, each student has to take minimum of 20 credits. The 8th Semester is earmarked for offering the ELP, which is offered in seven different packages viz., Crop Protection, Post Harvest Technology & Value Addition, Agri- Business Management, Commercial Horticulture, Commercial Agriculture, Social Science and Tea Production and Processing Technology. Under each experiential learning package, each student has to take 20 credits in ELP, of which 12 credits will be from one package (major) and minimum 8 credits from of two other packages. Altogether, 8 ELP modules are operational under Dean, Faculty of agriculture in two locations, of which, 5 are ICAR funded and the rest are funded by AAU.

Under veterinary faculty, 2 ELP modules are operational with the financial support from ICAR. Under this faculty students undergo Internship training programme as per the academic guidelines of Veterinary Council of India. In the last 5 years five batches have undergone internship training programme for 6 months. Year-wise breakdown of students who have successfully completed Internship Programme are :

Sl.No.	Year	No. of Students
1.	2015-2016	102
2.	2016-2017	105
3.	2017-2018	93
4.	2018-2019	88
5.	2019-2020	93

There is also provision of NCC training and holding NCC-C certificate examination for BVSc & AH students opting for Defence and Para-military services. Year-wise breakdown of students who have successfully completed NCC-C Certificate Examination are :

Sl.No.	Year	No. of Students
1.	2015-2016	72
2.	2016-2017	70
3.	2017-2018	96
4.	2018-2019	61
5.	2019-2020	48, results awaited.

Under Faculty of Community Science, Student Ready Programme includes ELP, RAWEP and IN PLANT Training. The activities conducted under this programme are :

Program	Activities undertaken
ELP	• Designing and preparation of different Print Media namely visiting card, invitation card, banner, hoarding, calendar etc. • Preparation of various household utility items from different materials eg. cushion covers, artificial flowers, bags, table mats/clothes, food covers, macreme bags, etc. • Decorative items of various types eg. Pot plants, earthen decorative Diya, decorative candle making etc. • Exterior and Interior design development of house plans in CAD and Google Sketch • Organised exhibition for showcasing and selling the products produced by the students during the ELP programme. • Production of processed foods • Workshop for Early childhood educators and parents, Assessment of Intelligence (IQ) of children from 6-11years, Orientation program on teenage counselling • Utilization of textile waste material for constructions of various useful items. • Promotion of advanced professional skills and knowledge in dress designing and construction for different categories. • Organised fashion shows to advertise and showcase their products. • Visiting Card, Banners, Greeting cards, Porcelain cup printing, Dinning mats, Clock, Invitation cards, Calendars, Digitalised photo framing, Photo digitalisation, Souvenir items(wall hanging , pen stand, Porcelain cup printing). • Organising a hobby centre for preschool children. • Assessment of Intelligence (IQ) of children from 6-11years • T-Shirt printing, Cushion printing, Greeting cards, • Food service and hospitality management, Production of Nutraceuticals and Health Foods • Mobile back cover, Dog collar, Book mark, (Customized)Note pad(Customized),magi9c cushion, Photo digitization, Photo re-touching, Bottle printing, Key rings, couple mugs, Key chain set
RAWEP	• Installation of Vermi Compost unit, Installation of Cool Chamber, Creating awareness for using Low Cost Latrine, Installation of Model Kitchen Garden, Income generating activities of rural women-Extraction of banana fibre and its uses ,preparation of paper Jewellery, providing computer Education to rural children • Application of elements and principles of interior design and Decoration in Preparation of utility and home decorative accessories by using various weaving/painting/printing/embroidery/ techniques for income generation • Work simplification and drudgery reduction techniques for time and energy management.

	• Utilisation of local resources for income generation. • Awareness development on Hygiene and sanitation, water conservation for environment protection • Imparting nutrition education a) Home visit b) Monitoring and intervention of Mid-Day-Meal (c)Conduction of Awareness Programme for school going children (d) Diet counseling for pregnant women in • Vaccination camp • Method demonstration on breakfast • recipes from locally available vegetables • Popularization of supplementary • Food(Assam Mix) • Cataloguing of traditional foods • Cataloguing of herbal medicinal plants • Hands on training on construction of garment, household products, fabric embellishment, craft items etc. for income generation. • Awareness programme in care of clothing, wardrobe planning, selection of material for different products.
In Plant Training	• Acquiring skill of Script writing shot division, Shooting, editing, sound recording and editing & dubbing. Preparation of project on Multi-media Unit • Computer Aided Interior Designing in professional CAD Firms • Internship under various Govt institute and NGOs working for women, children, elderly and other vulnerable population • Develop skills in voluntary welfare services related to youth, women and children Skill development in guidance and counselling under different counselling centers. • Internship under various Govt institute and NGOs working for women, children, elderly and other vulnerable population • Develop skills in voluntary welfare services related to youth, women and children • Skill development in guidance and counselling under different counselling centers. • Got experience in working with industries such as Orient processor Pvt. Ltd., Fabric Plus, and NJB • Develop skills in silk spinning, dyeing, weaving, garment construction • Administrative and management skill developed for smooth functioning of enterprise • Making Short film on Nationalism, Making documentary on Traditional Arts & Craft of Assam Preparation of project on Multi-media Unit • Virtual in plant training was conducted by Senior Dietitian of Ayursundra, Guwahati, Ms. Mitali Borooah and Ms. Tinababy Boruah, Dietitian of Excel Care, Guwahati. • The course on “Internationally accredited diploma in diet planning” by Akash Sehrawat which had 84 videos, lectures comprises of 7 modules. • Digital learning with interactive learning environment under TATA Consultancy services

6.6.4.4.2 Status of implementation of green initiatives

Assam Agricultural University has been organizing various green initiatives programmes time to time to create awareness among people towards conservation of environment. The notable among such efforts during 2016 to 2020 are :

- Celebration of important national and international event like “*World Environmental Day*”, “*World ozone day*” etc.
- Implementation of various activities in and around the university campuses as per guidelines of “*Swachh Bharat Mission*”, GOI.
- Tree Plantation in college campus and distribution of sapling in nearby villages
- Installation of solar street light at Campus Street.
- Provision of dustbin in residential campus using brick masonry.
- Provision of roadside dustbin at college campus.
- Distributing dust bin, cleaning village
- Promotion of nutrition garden for biodiversity and nutrition security
- Observing Swachhta Pakhwada 16.12.20 to 31.12.2020 by delivering talk on importance of organic farming, Waste management and Distribution of soap, ear bud, mask among women
- For initiating the practice of green initiative in the college of Community science on the occasion of Menstrual hygiene Day (MDH) on 28th May 2020 an incinerator cum vending machine was installed in the girls toilet of College of Community Science.
- For proper disposal of waste of the college of Community Science an incinerator for trash was installed in the college of Community Science.
- Under the DBT Funded Project on “Management of Green Waste for economic benefit and women empowerment” Ecofriendly Biomass compressed briquettes making technique was imparted through hands on training to rural women and unemployed youth for entrepreneurship development.
- A briquette burning stove of lesser in price, efficient and lighter in weight has been designed and developed to burn briquettes for cooking.
- Environmental friendly disposable plates and bowls were prepared from areca palm leaf sheaths with value addition and hands on training was given to rural women and unemployed youth for entrepreneurship development.
- Biodegradable utility handicraft products from water hyacinth was economically utilised for making market oriented hand bags, hats, napkin holder, fruit basket, pen holder, dinning mat etc. These are being prepared in attractive design and colours. These products are then used for providing hands on trainings to rural women and unemployed youth for entrepreneurship development.

Presently AAU has received a Green initiative projects entitled “Development of Agro-Eco tourism through Green Eco-tourism in Assam agricultural University, Jorhat” from Education Division of ICAR with a financial sanction of Rs. 2,99,86,000.00.

Green initiatives through KVK

As a part of green initiatives the Assam Agricultural University organised various programmes under Swachh Bharat Abhiyan during 2015-16 to 2019-20 through KVKs.

Table : Summary of programmes under Swachh Bharat Abhiyan by KVKs

Year	No. of programmes	No. of Villages	No. of Participants
2015-16	68	103	2819
2016-17	83	131	3452
2017-18	104	153	5049
2018-19	126	191	4461
2019-20	163	183	5219
Total:	544	761	21000

Programmes conducted during 2015-16

1. Cleanliness drive at KVK, Campus
2. Awareness creation in local area through informal group discussion and data collection on source of waste. Major waste found in the villages are mostly polythene bags waste and kitchen/household waste
3. Awareness Programme on Plastic free agriculture, Rainwater harvesting
4. Sanitation, cleaning of agricultural sewage system, waste water recycling
5. Waste recycling, Recycling of Agricultural weed Biomass, Vermicompost production
6. Using rice straw for making mushroom bed and recycling mushroom bed for vermicompost making
7. Street plays
8. Swachhta pledge, Awareness, Cleanliness drive, Competition among students, awareness on recycling and safe disposal of bio waste
9. Training cum awareness programme on compost making and vermicompost making,

Programmes conducted during 2016-17

1. Awareness on Swachhta Hi Seva
2. Observance of Swachhta Pakhwada, Samagra Swachhta Diwas and Swachhta hi Seva campaigns
3. Cleaning and renovation of fishery pond for IFS development
4. Water treatment of fishery pond for development of horticulture cum fishery based Integrated Farming system
5. Tree plantation of Assam lemon, Malbhog Banana at newly developed horti-cum fish IFS system
6. Sewage and drainage reconstruction and cleaning in KVK campuses

7. Jungle cutting and cleaning of newly selected sites for development of Medicinal Nursery.
8. Construction and installation of lowcost vermicompost unit for agricultural waste recycling at Medicinal plant nursery.

Programmes conducted during 2017-18

1. Awareness & cleanliness programme on Swachhata
2. Observance of Swachhta Pakhwada, Samagra Swachhta Diwas and Swachta hi Seva campaigns
3. Cleanliness and sanitation drive in the adopted villages
4. Demonstration on waste to wealth
5. Gandhi Jayanti with connection to programmes “Swachhta Hi Sewa”
6. KVK office campus cleaning, awareness workshop, plantation programme, waste management, Sapling distribution, Different competition, cleanliness drive at public places and tourist places

Programmes conducted during 2018-19

1. Swachhata pledge taking
2. Observance of Swachhta Pakhwada, Samagra Swachhta Diwas and Swachta hi Seva campaigns
3. Tree Plantation drives
4. Cleanliness drive within KVK office campuses
5. Organic farming practices in kitchen gardens of residential colonies
6. Distribution and planting of tree plants
7. Awareness on Swachhata Hi Sewa
8. Awareness on waste utilization and establishment of vermicompost unit
9. Celebration of Kisan Diwas (Farmer’s Day) – 23rd December by inviting farmers. Experience sharing on Swachhta initiatives by farmers and civil society officials. Felicitating farmers/civil society officials for exemplary initiatives on Swachhta.
10. Fostering healthy competition - Organizing competition and rewarding best offices/ residential areas/ campuses on cleanliness.
11. Quiz, essay and drawing competitions for school children, village youth.
12. Stock taking on digitization of office records/ e-office implementation.
13. Visits of community waste disposal sites/ compost pits, Cleaning and creating awareness on treatment & safe disposal of bio-degradable/non bio-degradable wastes by involving civil/farming community.

Programmes conducted during 2019-20

1. Swachhata pledge taking

2. Observance of Swachhta Pakhwada, Samagra Swachhta Diwas and Swachta hi Seva campaigns
3. Tree Plantation drives
4. Beautification of KVK office premises
5. Demonstration on waste to wealth
6. Office campus cleaning, awareness workshop, plantation programme, waste management, Sapling distribution, Different competition, Public place cleaning
7. Promoting clean & green technologies and organic farming practices in kitchen gardens of residential colonies
8. Conduct door-to-door meeting to drive behaviour change with respect to sanitation behaviors
9. Mobilize community to build compost pits, where organic matter decomposes to form Manure
10. Organize waste collection drives in households and common or shared spaces
11. Volunteer for segregation of solid waste into non-biodegradable and biodegradable waste
12. Toilet pit-digging exercise and other toilet construction activities

6.6.4.4.3 FARMERS FIRST

The project “Participatory Technology Assessment for Enhancing Farming System Productivity and Developing Entrepreneurship for Sustainable Rural Livelihood (Farmer FIRST)” is currently being implemented in Titabor and Nakachari of Jorhat district. The project activities through various modules, *viz.* crop-based module, horticulture-based module, livestock-based module and enterprise-based module, are focused to facilitate participatory assessment of existing farming systems and integrating them to enhance farm income, efficient utilization and conservation of farm resources. The project activities are also aimed at developing small agriculture-based enterprise in potential farm units, strengthen existing entrepreneurs through skill development, establishing linkage and access to information, technology, input and market by the participating farmers. Over the last 4 years of project implementation, about 2000 farmers participated in 60 different interventions covering an area of about 300 ha and the following few salient progress are achieved:

- Adoption of mulching practice integrated with scientific cultivation by the existing traditionally cultivated King chilli farmers, and increase in acreage
- Increased cropping intensity and utilization of residual soil moisture through relay cropping (lentil, lathyrus, pea) and linseed, buckwheat, pumpkin cultivation after winter rice
- Enhanced yield and farm income with adoption of high yielding rice varieties
- Scientific cultivation of vegetables, *viz.* knolkhol, brinjal, tomato etc enhancing farm income and profit
- Enterprise development with scientific bee keeping, mushroom cultivation, improved breed poultry farming and egg hatching using portable incubator
- Adoption of improved pig breeds

- Farm bio-waste recycling through adoption of improved composting method (vermicompost)
- Enterprise development for vegetable seedlings using low cost shade net house
- Integration of *bari* system (homestead garden) for enhanced yield and nutrition

6.6.4.4 Mera Gaon Mera Gaurav

The programme “Mera Gaon Mera Gaurav” is being implemented through all the KVKs under AAU. The number of villages covered under this programme is 74. The type of activities conducted under the programme are Awareness programme, Demonstrations, Interface meeting/ Goshthies, Literature support, Training, Visit to village by teams and Mobile based advisories

Table 19: Summary of programmes under MGMG by KVKs

Year	No. of Programmes	No. of Farmers benefitted	Area Covered (ha)
2015-16	565	11289	183.56
2016-17	1094	17461	659.59
2017-18	1387	30499	284.62
2018-19	1587	19174	309.48
2019-20	1471	21123	700.48
Total:	6104	99546	2137.73

Moreover, 600 more villages have been identified by the University during 2020-21 under “Mera Gaon Mera Gaurav” programme. Under this programme, a group consisting of 4 faculties will visit the adopted villages at 15 days interval with an aim to transform the rural economy of the villages through agri-preneurs development.

Activities Conducted under Mera Gaon Mera Gaurav :

(i) Demonstrations conducted

- Demonstration on agricultural and allied activities
- Demonstration on Scientific and improved cultivation practices
- FLD on ICM of rice and pulses, Cluster frontline demonstration on oilseeds and pulses
- Mushroom Cultivation and Production technology
- Use of Organic pesticide
- Nutritional aspects of vegetables
- Popularization of summer marigold
- Importance of Soil testing
- Scientific rearing of Cattle, Poultry and Piggery
- Livelihood security of tribal farmers by introducing improved pig farming breed Ghungroo
- Composite Fish Farming and Duck cum Fish Farming

- l. Round the year availability of fish fingerlings and yearlings by raising fish fry
- m. Demonstrations on perennial fodder production
- n. Cultivation of horticultural crops
- o. Low cost polyhouse tunnel for raising of quality seedlings under adverse weather condition as well as offseason cultivation
- p. Homestead Azolla production
- q. Demonstration and up-scaling of short duration rice varieties

(ii) OFTs conducted

- a. Management of Bacterial wilt in Brinjal & Tomato using Biofor PF
- b. Vector management in Bhot Jalakia
- c. Effect of Zinc on the productivity of wheat
- d. IWM in Summer Black gram and Green gram
- e. OFT on Moisture conservation tillage practice for toria after Sali rice
- f. Floating Duck house for duck cum Fish farming (especially in flood affected)
- g. Evaluation of Cross Breed pig
- h. Evaluation of improved dual type backyard poultry
- i. Evaluation of kuchia culture technology

(iii) Training and awareness programmes

- a. Scientific Production Technologies in Agriculture and Animal Science
- b. Improved production technologies in Agriculture and Animal Science
- c. Commercial production of mushroom for self employment
- d. Farm Planning and Budgeting
- e. Care & management of Dairy Cattle
- f. Carpet making
- g. Commercial cultivation of Solanaceous vegetables
- h. IPM in Sali paddy and vegetable crops
- i. Nutritional security for tribal women
- j. Soil testing for judicious crop fertilization
- k. Awareness training on PMFBY
- l. Improved cultivation practices of onion and garlic
- m. Growing and management of potted plants
- n. Low cost production technology of oilseed crops
- o. Preparation of decorative item using low cost and waste material
- p. Nutritional care for women and children
- q. Value addition of fabric
- r. Drudgery reduction through work simplification
- s. Training on Food processing and preservation, Fish pickle preparation
- t. Nutrification of traditional recipes

(iv) Field visit

- a. Training, Group meeting, Monitoring of FLD and diagnostic visits

(v) Advisories provided

- a. Extension literature in the form of bulletins and leaflets
- b. Mobile advisories related to agriculture and allied sciences
- c. Advisories on Crop, Livestock, weather, marketing etc
- d. Swacch Bharat Abhiyaan and Soil testing and health

(vi) Others

- a. Field visit for Bench mark survey and soil sample collection for Soil health card (SHC) distribution and diagnostic field visit
- b. Field visit for Training, Group meeting, Monitoring of FLD and diagnostic visits
- c. Diagnostic visit for Animal disease, crop and plant disease management
- d. Field day (Linseed, lentil and field pea)
- e. Facilitation for new varieties, seeds, technology

Salient milestones achieved in Mera Gaon Mera Gaurav scheme:

- Improved productivity of major crops (Rice, Potato, Toria and Lentil) through cultivation of HYVs
- Improved productivity of poultry and duck through rearing improved breeds (Kamrupa, Rainbow Rooster, Khaki Cambel, Vigova super M)
- Quail farming, white pekin duck got popularity among the farmers.
- SHG/FPC Formation
- Farmers adopted HYV of Toria (TS-38, TS-36)
- Farmers adopted Pig farming, poultry farming, Mushroom Cultivation of Oyster Mushroom, low cost vermicomposting production technology.
- Transfer of scientific know how and new technologies at targeted villages
- Sensitized farmers on bioinputs
- Obtained higher yield and showing less infestation of Pest and Diseases with good economic return
- Soil test based fertilizer application in major crops
- Increased awareness on scientific agriculture and allied sector
- Increase in productivity of crop, livestock, fishery and sericulture sectors.
- Awareness on swacchta, hygiene
- Awareness can created on ill effects of pesticides
- Sensitization of school children on scientific attitude and agriculture.
- Low cost polyhouse tunnel for raising of quality seedlings under adverse weather condition as well as offseason cultivation

- Layout preparation, Sapling distribution , plantation to improve existing bari and new bari system was developed under agro forestry
- Sensitization through use of ICTs

6.6.4.4.5 National Innovations on Climate Resilient Agriculture (NICRA)

Assam Agricultural University has been implementing the NICRA project Through Directorate of Research and Directorate of Extension Education. Under Directorate of Research, the project has been implementing in two (2) districts of Assam viz. Jorhat and Biswanath while through the Directorate of Extension Education the project has been implementing in five (5) districts of Assam viz. Dibrugarh, Cachar, Sonitpur, Karbi Anglong and Dhubri covering one village from each district with an objective to demonstrate the resilient of agricultural technology of the selected villages to climate variability and climate change through application of improved production and risk management technologies and to generate information on location specific climate resilient practices and its performance in farmer's field. The location specific technologies have been found suitable in reducing the losses of farmers due to vulnerability of climate. Custom Hiring Centers have been also initiated the adopted villages for mechanization of farm activities.

During 2015-16 to 2019-20, 309 nos. of programmes have been conducted benefitting 4707 nos. of farmers covering an area of more than 1559 ha. Vermicomposting units, piggery, poultry and cattle units along with *Jalkund* units were also set up.

Table 20: Summary of programmes conducted under NICRA during 2015-20

Year	No. of programmes	No. of farmers benefited	Area Covered (Ha)
2015-16	54	711	116.92
2016-17	58	721	182.12
2017-18	62	923	211.58
2018-19	66	1067	319.88
2019-20	69	1285	727.88
Total:	309	4707	1558.38

Different demonstration and training programmes have been conducted under NICRA on:

- Crop production and Crop diversification
- Demonstration on submergence tolerance paddy
- Demonstration on Semi- deep water paddy
- Seed bank of Rice, Toria etc.
- Institutional Interventions
- In-situ moisture conservation

- Livestock and fisheries
- Natural Resource Management
- Protected Cultivation
- Soil health improvement and Site Specific Nutrient Management
- Low cost vermicomposting and Green manuring
- Low cost improved Mechang type poultry house for flood affected area
- Renovation of jalkund

6.6.4.4.6 Other similar schemes

Krishi Kalyan Abhiyan

The Ministry of Agriculture and Farmers Welfare launched Krishi Kalyan Abhiyan from 1st June 2018 to 15th August 2018. The program was focused on giving a boost to agriculture and allied activities in the aspirational districts. Various activities were undertaken various activities to promote best farming practices and enhance Agricultural income. The schemes was implemented in 5 districts of Baksa, Barpeta, Dhubri, Darrang, Udalguri through KVKs benefitting 94,905 nos. of farmers.

Salient achievements:

- 100% coverage of bovine vaccination in each village
- 100% coverage of Sheep and Goat for eradication of PPR.
- Artificial Insemination
- Bovine Vaccination(FMD)
- Agricultural implements distribution (Distribution of 10 to 20 agriculture implements per village)
- Demonstration of micro irrigation / integrated cropping system
- Distribution of Horticulture/Agro Forestry/ Bamboo plant @ 5 per family (location appropriate)
- Making NADAP Pits in each village
- Minikits distribution
- Soil Health Cards distribution
- Training programmes in each of the villages on Bee Keeping, Mushroom cultivation and Kitchen garden

Attracting and Retaining Youth in Agriculture (ARYA)

The programme is being implemented through 3 KVKs viz. Karbi Anglong, Kokrajhar and Lakhimpur

Project Objectives:

- (i) To attract and empower the youth in rural areas to take up various agriculture, allied and service sector enterprises for sustainable income and gainful employment in selected districts.
- (ii) To enable the farm youth to establish network groups to take up resource and capital intensive activities like processing, value addition and marketing etc.,
- (iii) To demonstrate functional linkage with different institutions and stake holders for convergence of opportunities under various schemes/programmes for sustainable development of youth.

The salient achievements under ARYA are:

- A total of 774 skilled youths were trained up in agriculture, animal husbandry and sericulture sectors
- Per unit income of various enterprises increased significantly by 1.5 - 2 % due to the scientific interventions where the traditional method of farming was followed
- Quality planting materials, chicks and piglets produced (40000 nos. of fruits, 788 piglets, 111400 eggs, 780 Kg mushroom)
- Enhancement of productivity in mushroom, eri cocoon production and piggery are clearly seen and thus attract 11 numbers of neighbouring villages
- Line departments are attracted to work with ARYA groups in convergence mode
- Promotion of long term entrepreneurship development in agriculture and allied sectors among the farm youth
- Creation and Development of market linkages
- Opened up avenues in the services sector. The services of the trained youth are being used for sharing their experience with other farmers in order to motivate them for taking up agriculture and allied activities as a source of livelihood

New Extension Methodologies and Approaches (NEMA)

Ten KVKs, viz. Nagaon, Sonitpur, Karbi Anglong, Barpeta, Golaghat, Lakhimpur, Kamrup, Cachar, Kokrajhar and Sivasagar are implementing the project. Initial PRA survey on crops and livestock was completed successfully during 2019-20.

DBT Biotech Kisan Hub

Biotech-Krishi Innovation Science Application Network (Biotech-KISAN) conducted by RRLRRS, ICAR-NRRI, Gerua) being implemented through KVKs, Baksa, Barpeta, Darrang.

GRAMIN KRISHI MAUSAM SEWA (GKMS)

Gramin Krishi Mausam Sewa Project is launched to issues crop and location specific weather based agro advisories for the benefit of farming community. It issues advisories on every Tuesday and Friday and occurrence of extreme weather. It was implemented in the year 1995 with the following objectives:

- i. Prepare and disseminate weather based Agromet Advisory Bulletins (bi-lingual) for different parts of districts and Agro Climatic Zones.
- ii. Disseminate advisories through SMS, firms under PPP mode, extension agencies & other modes of communication and uploading in the Division's website, print media etc.
- iii. To organize/participate in awareness activities to popularize Agromet Advisory Service and undertake impact assessment studies under grant-in aid program.
- iv. To provide security and maintain Agro-meteorological observatory/Automatic Weather Stations with full custodial responsibility.
- v. Record observation (0700 LMT and 1400 LMT, 0300 UTC (*i.e.*, 08.30 hrs IST) and 12 UTC (*i.e.*, 17.30 hrs IST) including soil moisture observation and update the data in archival.
- vi. Prepare data base for weather and crop observations and update on real time.
- vii. Assist in preparation of local climatological information and agricultural data from districts.
- viii. To make available experimental field data for calibration and validations of crop models and to identify weather sensitivity of crops, animals, P&D and management practices.

FORECASTING AGRICULTURAL OUTPUT USING SPACE, AGROMETEOROLOGY AND LAND-BASED OBSERVATIONS (FASAL)

The main aim was to collect Monsoon data through remote sensing, economic data and monitoring of crops. The programme is sponsored by Ministry of **Agriculture** and the university has implemented in the year 2010 with the following objectives:

- i. To establish the relationship between weather and crop growth, development and yield for rice, jute and rapeseed-mustard
- ii. To assess and establish the relationship between weather, field level management practices and land factors for crop yield forecasting
- iii. To determine genetic coefficients for popular varieties of rice and rapeseed-mustard for running crop simulation models for crop yield forecasting
- iv. To issue multiple crop yield forecast for rice, jute and rapeseed-mustard in Assam at mid-season and pre-harvest stages

NBIO funded project (Norway Govt.) on building climate resilience through sustainable intensification and agro ecological farming systems to strengthen food and nutrition security has been implemented in the university

6.6.4.5. Innovation and Best Practices

What are the innovative efforts of an institution that help in its excellence in extension?

Innovative efforts that help in excellence in extension

Innovative extension efforts will help to make agriculture more profitable to provide livelihood security to farmers. Such approaches are to be adopted and the relevant information is to be provided in the most suitable package of practices that can be handled in the most efficient manner. Such efforts are:

- Organising user/producer groups for input provision, production and marketing in cluster approach
- Capacity building of rural youth/progressive farmers at village level to act as resource person especially for farmers of distant areas so that more farmers/rural youth can be reached at a time
- Better linking of farmers to input and output markets
- Enhancing resilience in agriculture through participatory approach
- Community led extension
- Market led extension
- Farmers' participatory technology showcasing and seed production
- Use of ICT in Agriculture

Action taken on various dimensions of innovative efforts in farmer's field

The KVKs have tried to bring in innovations in their extension efforts for rapid expansion of newer technologies and approaches to make agriculture more remunerative and satisfying. Followings are some examples of such efforts carried out in the recent years:

1. Off season and early planting of pumpkin

Pumpkin is a very popular vegetable among the people of Assam and is widely cultivated in rabi season by the farming community of the state. As there is heavy demand of pumpkin throughout the year, Mr. Pankaj Kalita, a progressive farmer from Nalbari with technical guidance from KVK Nalbari initiated off-season cultivation of pumpkin in silt deposited areas by advancing the planting time to July - August. Off-season planting of Rabi pumpkin proved to be a successful one as early planting helps in fetching good market price due to the market demand besides reducing the cost of irrigation as the crop during this period receives adequate rain water. Even though early planting records relatively low production than the normal planting the high price of the off-season product offsets the yield reduction. The success of Mr. Pankaj Kalita has

shown the path to many farmers and lot many enterprising farmers across the state have started adopting this approach with guidance and training from the KVKs.

Taking another initiative, the KVKs are demonstrating and guiding the farmers to grow pumpkin in rice field which otherwise remains fallow after harvest of sali rice (winter rice). The farmers are guided to raise seedlings first and then transplanting after harvest of rice which is a very new approach to intensification of cropping even in situations where rice harvest is quite delayed. This has really boosted the production of pumpkin in the state. The pumpkins are now lifted in large quantity by traders and sent to Tripura, Arunachal Pradesh, Nagaland, Manipur etc.

2. Community seed bank and farm enterprises in flood affected areas

Floods, flash floods and sand casting (deposition of large amounts of sand by flood water) are the most frequent water-induced hazards in Dhubri district of Assam. All of these hazards very adversely affect all aspects of land use, lives and livelihoods of communities living in the district. The farmers have no provision for nursery pond, farmers' cannot follow multiple stocking. Often, farmers are unable to restock their ponds with fish seeds after the flood water washes away fish ponds. Likewise, the farmers find extremely difficult to get rice seedlings and fodder crops after these are damaged by flood. KVK Dhubri initiated community led production of seed of various situation specific rice varieties and fishes for ensuring availability of quality rice and fish seeds in the farmers' field after flood.

Due to aberrant rainfall pattern flood or drought induced damage to rice seedlings has become almost a regular feature these days. On the other hand, delay in sowing of seeds in nursery bed results in delayed transplanting which adversely affects the productivity of crops. It also results in negative impact on performance of rabi crops grown after harvesting of paddy. Considering the situation, Mr. Soshidananda Bordoloi, an educated rural youth from Borsola village of Morigaon district, closely working with KVK Morigaon, comes with an innovative idea of timely sowing of Ranjit Sub 1 paddy seed in his upland area and selling the well raised healthy rice seedlings to the farmers of his village and nearby villages at the rate of Rs 50/kg. This has transformed Mr Bordoloi to a farmer entrepreneur bringing a new dimension and showing others to become service provider while continuing to be a farmer. Incidentally, Mr Bordoloi was awarded by District Administration as a progressive farmer for his initiative in popularization of submergence tolerant rice varieties in his area

3. Linking of farmers to input and output markets

Krishi Vigyan Kendra, Nalbari of Assam is putting high priority in induced breeding and seed raising of different indigenous fish and have been working for diversification of cultivable fish species in aquaculture having high market demand along with rich nutritive value. One of the indigenous fish having high nutritive and market value is Magur (*Clarias batrachus*) that fetches about Rs 400-1000 per kg. With needed technical support from ICAR-CIFA, Bhubaneswar, KVK Nalbari imparted hands-on training to some enterprising fish farmers of the district. KVK Nalbari also collaborated with ICAR-CIFA, Bhubaneswar to help the farmers to procure portable FRP magur hatcheries. The success of those farmers in breeding and raising of magur fish drew attention of many other fish farmers of the district. The support provided in terms of hands-on training and FRP magur hatchery distribution worked wonder as these farmers could be able to breed magur and rear those seeds successfully. For last two years, each of these fish farmers could produce on an average 70-85 thousand magur fingerling as ready for stocking in grow-out pond with net average income from each magur hatchery being about Rs 2 lakh. Today, Nalbari district has become a hub for magur seed for the entire state.

4. Poultry chick production through self fabricated hatching incubator

Several enterprising youths with innovative minds have successfully developed hatching incubator for production of poultry chicks in small scale thus making the community somewhat self reliant in chicks. Few examples are given below:

- a) Sri Rantu Phukan from Tipomia village in Teok, Kaliapani area started chick production by self made incubator in an ordinary thermocol box with a kerosene lamp as a source of power and was able to produce few chicks in the first batch. Sri Phukan came in contact with KVK, Jorhat through a training programme and started receiving support and guidance from the KVK in each step of his development process like fixing up humidity and temperature inside the incubator, use of light, long lasting eco-friendly covering material etc. With constant support, guidance and encouragement from the KVK, he could finally fabricate a suitable prototype of an incubator after some initial failures. Presently he is producing 2400 chicks of local chicken every month earning on an average net income of about 64,000.00 per month. He is also fabricating incubator of different capacity and selling the incubators to the farmers of Jorhat and neighbouring districts and getting a very good market response. He has also established a local chicken poultry farm for egg production and is also buying back the local eggs from the farmers for his hatchery thus multiplying farmers' benefits.
- b) Another young energetic man Mr. Jyotish Deka from Jhargaon, Udalguri district also developed a low cost prototype of incubator with capacity of 200 per hatchery per batch with guidance and support from KVK Udalguri with use of easily available materials like plain sheet, ply board, glass, plastic jar, automatic temperature controller adapter, kerosene lamp etc. He has recorded an average 64% hatching in ducks and 73% hatching in chicken and quail eggs. He sold his 5 day old chicks at the price of Rs. 40.00/chicks for local chicken, Rs. 25.00/chicks for quails and Rs. 65.00/duckling for local duck earning on an average Rs.14, 000.00 per month. During the lockdown period, there was acute shortage of chicks as the supply from outside the district was cut off but the farmers were able to get chicks from Mr. Deka which helped them continue their farming activities.
- c) With support of KVK, Barpeta, one Mr. Farooq Khan from Barpeta town developed a low cost incubator using locally available materials. The incubator is made from 2 bamboo basket with 3 ft diameter. One basket is used as lid over another basket. The basket used as lid has one hole in the middle in which a 60 W bulb with regulator is fixed. The bulb is

coloured with black paint. The saw dust is used in the basket for keeping the eggs. Both the baskets are covered with blanket for maintaining the temperature. Two litres of water is kept in a steel container in the middle of the lower basket for maintaining humidity. The eggs are rotated four times daily for maintaining uniform temperature and humidity throughout. The eggs are hatched after 28 days. The innovator was awarded during Farm Innovators Meet, 2018.

Like the above, several enterprising youths across the state are being supported by the KVKs in their drive to fabricating low cost incubators with locally available materials. This has made the community fairly self reliant with enormous impact on sustainable egg and poultry meat production in the state.

5. Tub soil- an innovative pot mixture

Many city dwellers are very much interested for flower and kitchen gardening but find difficulty to pursue this primarily because of the trouble in arranging the pot medium. Keeping this in view Mr. Ashok Medhi from Nalbari started preparation of tub soil for supplying to city dwellers. Tub soil - an innovative pot mixture is prepared by mixing organic matter-rich soil, vermicompost, neem cake, bone meal, egg shells, azolla, poultry droppings and *Trichoderma* based bio pesticides in a definite proportion with no need of supplementing with any additional nutrients from external sources.

Tub soil is marketed in bags of 10 kg with sale price of Rs 10.00/kg. The demand of tub soil has been increasing day by day and is being marketed in states like Sikkim, Arunachal Pradesh, Meghalaya besides Assam. The average annual income from tub soil is 6-7 lakhs per annum. Moreover, this innovative activity has created employment for more than 10 rural youths & women of the village. This will surely inspire many others to follow the suit.

6. Innovative Paddy Transplanter

Mr. Rajen Das, an innovative young rural youth from Morigaon district, indigenously developed a paddy transplanter using locally available low cost raw materials and recycling spare parts from junk like metal sheets, spare parts of bicycles, woods etc. He braced many setbacks in the initial stages, but overcame them with his perseverance and after many refinements in the design and its working mechanics he could come up with functional paddy transplanter. He kept the cost of assembling his machine very low with price just Rs. 5000.00 which makes it affordable good alternative for an average rural farmer while at the same time

significantly reducing the cost of manual paddy transplantation. The machine can transplant 0.4 ha in a day with only one person to draw the machine. The machine saves an amount of Rs. 1500/-/0.13 ha @ Rs. 300 for 5 farmers. Normally for transplanting of 1.3 ha rice in Assam condition, requires 4-5 women farmers. The KVK, Morigaon provided the needed support and motivated Mr. Rajen Das to keep engaged till he came to fruition with his innovations. Mr. Das, with needed support of the KVK, demonstrated his machine in large scale. His innovation already got some good media attention from both print and electronic media.

7. Low cost feed for pig from locally available materials

The farmers from Udalguri district (Ripu Daimary/ Bapon Boro/Lonkeswar Kachari) were trying to develop their own pig feed rather than commercial feed due to high cost of commercial feed. As 70% of pig production cost goes in feed the farmers are growing Maize crop or procuring required quantity of maize from other sources and appropriately mix with ingredients (For 100 kg locally made feed mixing is in the proportion of Maize 55 kg, Rice polish 40 kg, dried fish 3kg, Mineral mixture @ 1.5 kg and salt 0.5 kg). The cost of locally made feed is only Rs. 18.00-20.00 per kg against Rs. 36.00-38.00 per kg for commercial feed. Along with concentrate feeds the farmers feed with some other ingredients like colocasia, vegetables leaf and kitchen waste by boiling them with broken rice.

8. Low cost potato storage structure

Mr. Babu Ram Taye, a progressive farmer from Dibrugarh made a low cost oval shaped potato storage structure with Bamboo and straw that can store around 15 kg potato/unit. In the structure, a thin layer of hay/straw is put at the bottom and also at the sides and then potato is stored and another layer of hay is placed over. This ensures the aeration of stored potato. Under this method of storage, very minimal loss and pest incidence were recorded in potatoes.

9. Low cost Honey extractor

The Honey Extraction Machine is not readily available to the farmers and if a farmer wants to buy he has to pay a big amount of Rs.2200/-. To overcome this situation, Mr. Prasanta Bhuyan from Lakhimpur innovated a very low cost honey extractor using locally available materials. The materials used are: used Tin of mustard oil: Rs. 40.00, Iron Rat Trap: Rs. 130.00, Small piece of wood + nylon rope + used motor cycle bearing wheel: Rs. 130.00 and Welding cost: Rs. 100.00. The cost of the extractor is about Rs.400/-.

A wheel bearing is placed in the centre of the Tin, where the Rat Trap is placed in a way that by using the rope so that it may be rotated in both side. In the Rate Trap Box, two bee hives are placed at a time and by rotating in force the honey is extracted very simply. The technology has been spread to nearby districts *i.e.*, Dhemaji, Dibrugarh, Nagaon *etc.* covering at least 25 farmers. The innovative technology has good possibility.

10. Cross breeding of Large White Yorkshire pigs with Local pigs to overcome the marketing problem of white skin pig

In spite of wider preference and demand of pork there is hesitation for consumption of white coloured Yorkshire pig meat. Generally, dark skinned pigs are preferred by consumer over white skinned which causes a problem in marketing of Yorkshire pig in the local market of the district Lakhimpur and adjoining states. In appreciation of the issue one Sri Niruj Tao from Ayengia Borgaon, Lakhimpur undertook crossbreeding of Yorkshire gilt with Hampshire & Ghungroo boars from which he could get mixed coloured (black & white) piglets which were better marketed compared to Yorkshire piglets. Presently, Mr. Tao is supplying his piglets in Lakhimpur and nearby Dhemaji, Sivasagar districts and even to adjoining state of Arunachal Pradesh.

11. Botanical pesticide

Mr. Diganta Deka of Bathanotari, Barpeta prepared one botanical pesticide using leaf and fruit extract of locally available plants such as *neem*, *akon*, *karanj*, *dhatura*, garlic, king chilli and cow urine mixed together to form a concoction. The final product is mixed with water and foliar sprays are applied which are reported to be very effective in disease management of vegetables.

12. Blending of toria husk with rice straw for mushroom production

Rice straw during peak season becomes very costly causing mushroom production cost to significantly increase. On the other hand, toria husks remain as waste material without any further use. With the idea of using this freely available materials, Mr. Munna Nath of Porabhoral, Howli tried to blend rice straw with toria husks which has been found to be a better substrate over rice straw alone.

Besides all the above, the KVKs are trying to make use of the successful farmers and entrepreneurs as resource persons especially for farmers of distant areas to force multiply the

extension efforts of the KVKs. The KVKs are also organizing the farmers in group (FPO/FPC) and guiding them to make use such group formation for input provisioning, production and marketing in cluster approach etc.

6.6.4.6. Consultancy/Certification/Testing:

Mention about the resources generated through Consultancy/ Certification/Testing etc. in last five years. Give details of all activities. Give summary of participation of faculty in Consultancy/Certification/Testing and outreach programmes.

The details of resource generated through consultancy /certification/testing etc in last five years are given below:

College of Agriculture, Jorhat

Department	Type of service	Year	Resource generated
Department of Horticulture	Consultancy	2018-19	Rs 1,20,000.00
Department of Entomology	Testing	2019-20	Rs. 1,85,886.00
Department of Entomology	Testing	2015 &2016	Rs. 2,78,000.00
Department of Entomology	Testing	2016 & 2017	Rs. 3,16,250.00
Department of Entomology	Testing	2018 &2019	Rs. 2,87,500.00
Department of Entomology	Testing	2019 &2020)	Rs. 2,30,000.00
Department of Entomology	Testing	2019 &2020	Rs. 3,45,000.00
Department of Entomology	Testing	2019 &2020	Rs. 3,30,000.00
Department of Entomology	Testing	2020 &2021	Rs. 3,30,000.00
Department of Entomology	Testing	2016-2018	Rs. 1,79,952.00
Department of Entomology	Testing	2017-2018	Rs. 3,00,000.00
Department of Entomology	Testing	2016-20	Rs. 1,00,370.00
Department of Entomology	Testing	2018-2020	Rs. 2,99,000.00
Department of Soil Sciences	Testing & production	2016-17	Rs. 4,28,892.00
Department of Soil Sciences	Testing & production	2017-18	Rs. 2,15,578.00
Department of Soil Sciences	Testing & production	2018-19	Rs. 3,22,923.00
Department of Soil Sciences	Testing & production	2019-20	Rs. 3,00,712.00
Department of Soil Sciences	Testing & production	2020-21	Rs.1,14,120.00
Department of Plant Pathology	Testing & production	2016-17	Rs. 4,41,000.00
Department of Plant Pathology	Testing	2017-18	Rs. 2,34, 000.00

	&production		
Department of Plant Pathology	Testing & production	2018-19	Rs. 2,90, 000 .00
Department of Plant Pathology	Testing & production	2019-20	Rs. 3,76,000.00
Department of Plant Pathology	Testing & production	2016-17	Rs. 9,100.00
Department of Plant Pathology	Testing & production	2017-18	Rs.11,955.00
Department of Plant Pathology	Testing & production	2018-19	Rs. 4,250.00
Department of Plant Pathology	Testing & production	2019-20	Rs.28,220.00
Department of Tea husbandry and Technology	Consultancy	2017	Rs.92,700.00
Department of Tea husbandry and Technology	Consultancy	2019-20	Rs. 94,000.00
Department of Tea husbandry and Technology	Consultancy	2017-18	Rs.5,24,925.00
Total			67,90,333.00

CVSc, Khanapara

Farm/ Clinic	Type of service	Year	Resource generated
Sow Teaching Unit	Production	2016-17	Rs. 4,91,540.00
	Production	2017-18	Rs. 7,51,200.00
	Production	2018-19	Rs. 5,39,560.00
	Production	2019-20	Rs. 4,38,950.00
	Production	2020-21	Rs. 2,68,080.00
Instructional Livestock Farm (Cattle)	Production	2016-17	Rs. 27,03,982.00
	Production	2017-18	Rs. 31,18,398.00
	Production	2018-19	Rs. 29,52,400.00
	Production	2019-20	Rs. 33,01,540.00

	Production	2020-21	Rs. 25,71,055.00
Sahiwal Cattle Farms	Production	2017-18	Rs. 3,17,838.00
	Production	2018-19	Rs. 8,83,850.00
	Production	2019-20	Rs. 10,11,000.00
	Production	2020-21	Rs. 52,13,54.00 (Till Jan, 2021)
Veterinary Clinical Complex		2018-19	Rs. 33, 17,224.00
		2019-20	Rs. 38,83,241.00
Revenue generated from renting out the College play ground for various Agricultural and Sports related activities (Agri, Horticultural, Livestock fairs: School, CRPF, Police Sports, Army Recruitment rally, Etc)	Rent	2015-2016	Rs. 6,25,000.00
	Rent	2016-2017	Rs. 5,93,000.00
	Rent	2017-2018	Rs. 7,55,775.00
	Rent	2018-2019	Rs. 10,50,600.00
	Rent	2019-2020	Rs. 30,25,200.00
Total			Rs. 3,31,20,787.00

Resources generated by DEE

Funding Agency	Type of activity	Resource Generated (in Rupees)
Sathguru Foundation, Hyderabad	Training	16,00,000.00
National Agricultural Bank for Rural Development	Training/ Workshop/ Certificate Course/ FPO Promotion/ Commodity village/ other Projects	65,08,520.00
Petroleum Conservation Research Association (PCRA)	Workshop	5,12,500.00
National Skill Development Council (NSDC)	Skill Training	55,40,280.00
National Fishery Development Board (NFDB)	Skill Training	3,75,000.00
Agriculture Skill council of India	Skill Training	48,83,480.00

(ASCI)		
BAYERS India Ltd.	Demonstrations	8,53,450.00
Krishikarma (NRL sponsored programme)	Training & Demonstration	1,50,000.00
Coconut Development Board	Training & Demonstration	3,97,500.00
NEH Component (VPKAS)	Training & Demonstration	18,50,000.00
NEH Component (IARI)	Training & Demonstration	25,50,000.00
Paramparagat Krishi Vikas Yojana (PKVY)	Training & Demonstration	66,00,000.00
National Bamboo Mission through State Bamboo Development Agency	Bamboo nursery development	1,14,00,000.00
National AYUSH Mission through State AYUSH Mission Society	Medicinal plants nursery development	37,50,000.00
Total		4,69,70,730.00

Gross Revenue generated AAU through Consultancy/ Certification/Testing etc. in last five years (2015-16 to 2019-20)

Year	Area of revenue generation	Amount (Rs.)	Remarks if any
2015-16	Consultancy, Testing , certificate course, production, training etc.	10,68,40,000.00	
2016-17		4,55,00,000.00	
2017-18		13,25,00,000.00	
2018-19		15,12,00,000.00	
2019-20		19,65,81,035.00	
Total		63,26,21,035.00	

Participation of faculty in Consultancy/ Certification/ Testing and outreach programmes.

College of Agriculture, Jorhat

Faculty/ Department	Details of service
Dr. B, Saud, Professor, Department of Horticulture	Consultancy on landscaping: Institute of Advanced Study on Science and Technology (IASST), Guwahati in 2018-19
Dr. B, Saud, Professor, Department of Horticulture	Consultancy service to Thengal Kachari Autonomous Council, Titabar under Social Responsibility Scheme of AAU (2018-19)
Dr. Anjumoni Deves, Assistant Professor, Department of entomology	Insecticide testing in 2019-20 (M/S PI Industries Limited)
Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	Testing of acaricide mixture (Propargite + Hexythiazox) EC against tea mites. (Indofil Industries Ltd., Andheri, Mumbai-400059) in (2015 & 2016)

Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	Evaluation of Gaucho (Imidacloprid 600 FS) in Chilli as Seed Treatment (Bayer Crop Science Ltd., Kolkata- 700156) in 2016 & 2017
Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	Evaluation of PIM 890 20%EC against Tea mite, <i>Oligonychus coffeae</i> . (PI Industries Ltd., Kolkata) in 2018 & 2019
Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	To evaluate bio-efficacy and standardization of dose of S-1587 (34%SC) against insect pests of rice. (Sumitomo Chemical India Pvt. Ltd., New Delhi-110060) in 2019 & 2020
Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	To evaluate the bio-efficacy of Pyridalyl 10% EC against Fall Army Worm in maize (Sumitomo Chemical India Pvt. Ltd., New Delhi-110060) in 2019 & 2020
Dr. Sahidur Rahman, Principal Scientist, Department of Entomology	Bioefficacy and phytotoxicity of new insecticide (Encounter) against fall army worm (<i>Spodoptera frugiperda</i>) infesting maize crop. (Insecticides India Limited, Delhi) in 2019 & 2020
Dr. Purnima Das, Assistant Professor, Department of Entomology	Bio-efficacy of Sulfoxaflor 50% WG against Tea Mosquito Bug (<i>Helopeltis theivora</i>), Green fly (<i>Empoasca flavescens</i>) and Thrips (<i>Scirtothrips dorsalis</i>), its effect on natural enemies and phytotoxicity in Tea (Dhanuka Agro Tech Ltd.) in 2020&2021
Dr. Purnima Das, Assistant Professor, Department of Entomology	Bio-efficacy of Thiocyclam Hydrogen Oxalate 50% SP on Paddy (Agro Life Science Corporation) in 2016-2018
Dr. Ataur Rahman, Prof. & Head, Department of Entomology	Testing of <i>Apis mellifera</i> for adoption by the farmers cum beekeepers in collaboration with CK Udyog, Jorhat on PPP mode in 2017-2018
Dr. Dilip Kumar Saikia, Principal Scientist, Department of Entomology	Testing of Trichocard in 2016-20
Dr. Inee Gogoi, Junior scientist, Department of Entomology	Testing of insecticides against tea pests (Syngenta India Ltd.) in 2018-2020
Department of Soil Sciences	Testing of soil samples and bio-fertilizer production in 2016-17
Department of Soil Sciences	Testing of soil samples and bio-fertilizer production in 2017-18
Department of Soil Sciences	Testing of soil samples and bio-fertilizer production in 2018-19
Department of Soil Sciences	Testing of soil samples and bio fertilizer production in 2019-20

Department of Soil Sciences	Testing of soil samples and bio-fertilizer production in 2020-21
Department of Plant Pathology	Bio-pesticide production and testing_2016-17
Department of Plant Pathology	Bio-pesticide production and testing_2017-18
Department of Plant Pathology	Bio-pesticide production and testing_2018-19
Department of Plant Pathology	Bio-pesticide production and testing_2019-20
Department of Plant Pathology	Mushrooom unit under AICRP_2016-17
Department of Plant Pathology	Mushrooom unit under AICRP_2017-18
Department of Plant Pathology	Mushrooom unit under AICRP_2018-19
Department of Plant Pathology	Mushrooom unit under AICRP_2019-20
Department of Tea husbandry and Technology	Advisory services to small tea growers of Nagaland (2017)
Department of Tea husbandry and Technology	Capacity building of Small tea growers under TRINITEA (2019-20)
Department of Tea husbandry and Technology	Training under Tea Board funding (2017-18)

6.6.5.1. Recruitment and Promotional Avenue:

Give the detailed recruitment procedure for faculty, technical, supporting and administrative staff (in brief) and further mention the last recruitment for each category held in the University. Similarly, career advancement procedure and its implementation for all categories shall be given. How many staff have been recruited directly at the higher positions in the last five years?

The University has its Service Rules adopted in 1990 for both Teaching and Non-teaching employees wherein detailed regulations on recruitment and conditions of service have been mentioned.

Direct recruitment of Faculty is done through advertisement in local, regional and national dailies followed by personal interview through a selection committee of experts, following the prescribed norms of ICAR and the Board of Management of the University.

The AAU authority adopted Personal Promotion Scheme (PPS) for faculties as a part of the Promotional Policy which was implemented from 1992 to 2008. Since 2009, Career Advancement Scheme (CAS) prescribed by ICAR is in operation. The faculties who fulfill the requirements of CAS can take direct benefit of the scheme for their promotion.

Selection process involves assessment of academic records, Annual Confidential Reports (ACR) and performance in the interview conducted by panel of experts appointed by the University Authority as per the defined guidelines incorporated in the Service Rules approved by the Board of Management. Teaching Faculties are required to submit a Self Appraisal Report in a prescribed format to the University Authority through the respective controlling officer. There is a set procedure of submitting Self Appraisal Report by each faculty once in a year providing details of the duties carried out in teaching, research, extension and other assignments allotted to them. The recommendations of the Selection Committee have to be approved by the Board of Management (BoM) before appointment.

In the case of other employees, the recruitment is done by advertising the posts and holding interview by duly constituted panel of experts, as per the guidelines of the Service Rules of the University. The Departmental Promotion Scheme(DPS) is in operation for the promotion of other employees of the University. As per the provision of this scheme, 50% of the vacant posts of all the categories are filled-in from the existing staff of the University. There exist set norms for filling up the vacant posts through DPS as laid out in the Service Rules of AAU.

The last recruitment held in the University for different categories of non-teaching employees are summarized below:

Last recruitment in AAU, Jorhat for different categories of employee

Category of Employee	Year of last recruitment	No. of employee recruited
Assistant Engineer (Civil)	2020	1
Assistant Engineer (Electrical)	2020	1
Junior Engineer (Civil)	2020	1
Junior Engineer (Electrical)	2020	1
Junior Administrative Assistant	2019	20
Laboratory Assistant Gr-III	2019	5
Messenger Gr-IV	2019	4
Jr. Electrician	2019	2
Plumber Gr-IV	2019	1
Plumber Helper Gr-IV	2019	1
Helper to Electrician Gr-IV	2019	1
Tractor Helper Gr-IV	2019	1
Stenographer Gr-III	2018	4
Nurse Gr-III	2018	1
Jr. Engineer (Agril. Engineering)	2016	2
Field Assistant Gr-III	2015	52

Direct recruitment at the higher positions in the University during the last five years

The recruitment of Statutory Officers, Subordinate Officers and Faculties at different position under Assam Agricultural University is summarized in the following Tables.

Name of the Position	Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
Vice- Chancellor, AAU, Jorhat					01
Registrar , AAU, Jorhat	01				
Comptroller, AAU, Jorhat					01
Dean, Faculty of Agriculture, AAU, Jorhat			01		
Dean, Faculty of Vety. Science			01		
Dean, College of community science, AAU, Jorhat			01		
Director of Research (Agri), AAU, Jorhat			01		
Director of research (Vety.), AAU, Khanapara			01		
Director of Extension Education, AAU, Jorhat			01		
Director of post Graduate Studies, AAU, Jorhat			01		
Director of Students' Welfare, AAU, Jorhat			01		
Director of Physical Plant, AAU, Jorhat					01
Associate Director of Extension Education (Training)	01				
Associate Director of Extension Education (P&I)	01				
Associate Director of extension education, AAU, Khanapara			01		
Associate Director of Research (Agri), AAU,					01

Jorhat					
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Recruitment status of Subordinate Officers/ Chief Scientist

Name of the Position	Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
Associate Dean, BNCA	01				
Associate Dean, SCSCA, Dhubri				01	
Associate Dean, LCVSc, Lakhimpur	01				
Associate Dean, College of Horticulture, Nalbari					01
Joint Registrar (A), AAU, Khanapara				01	
Chief Agronomist, IFS research, AAU, Jorhat					01
Chief Scientist, AICRP on Water Management, AAU, Jorhat		01			
Chief Scientist, AICRP on Dry-land Agriculture, BNCA		01			
Chief Scientist, RARS, North Lakhimpur		01			
Chief Scientist, RARS, Gossaigaon			01		
Chief Scientist, RARS, Diphu					01
Chief Scientist, HRS, Kahikuchi		01			
Chief Scientist, LRS, Mondira					01

Recruitment status of Teachers/ Scientist during 2016-17 to 2020-21

Name of the Position	Year					Total
	2016-17	2017-18	2018-19	2019-20	2020-21	
Professor/ Principal Scientist	-	-	-	-	01	01
Associate Professor/ Senior Scientist	01	-	-	-	01	02
Assistant Professor/ Junior Scientist	15	03	73	70	01	162

6.6.5.2. Participation of Faculty in Symposia/Workshops:

Give the comprehensive list (year wise, College wise) participation of faculty in National/International Seminars/ Symposia/ Workshops/ Training/ Consultancy visits/Special assignments etc.

Altogether, 465 number of teachers/ scientists of the university participated different national and international training programme during 2015-16 to 2019-20 of which 425 teachers/ scientist participated at National level training and 40 numbers participated at International training. During the same period 386 number of teachers/ scientists attended various National and International level seminar. The number teachers/ scientists attended International seminar was 221 and national seminar was 171. Similarly 203 number of teachers/ scientist from various streams participated in national and International Conference/ Symposia and 231 number teachers/ scientists attended national and international Workshop during 2015-16 to 2019-20.

Table: Number of Faculties attending training, seminar, conference, workshop etc. during 2015-16

College	National level				International level			
	Training	Seminar	Conference/ Symposia	Workshop	Training	Seminar	Conference/ Symposia	Workshop
CA, Jorhat	23	7	-	10	-	3	1	1
BNCA	-	-	1	9	-	-	1	-
SCSCA	1	-	-	-	-	-	3	-
CVSc	7	12	37	13	3	2	30	-
LCVSc	4	-	7	-	-	-	-	1
CCSc	6	-	2	9	-	-	-	-
CFS	5	-	-	3	1	-	1	-
Total	46	19	47	44	4	5	36	2

Table: Number of Faculties attending training, seminar, conference, workshop etc. during 2016-17

College	National level				International level			
	Training	Seminar	Conference/ Symposia	Workshop	Training	Seminar	Conference/ Symposia	Workshop
CA, Jorhat	9	17	-	7	-	5	7	-
BNCA	1	2	1	4	-	-	-	-
SCSCA	9	-	-	-	-	-	-	-
CVSc	22	23	22	5	3	2	5	1
LCVSc	16	-	2	-	-	-	-	-
CCSc	4	2	2	6	-	1	2	-
CFS	2	2	2	-	-	-	1	-

Total	63	46	29	22	3	8	15	1
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Table: Number of Faculties attending training, seminar, conference, workshop etc. during 2017-18

College	National level				International level			
	Training	Seminar	Conference/ Symposia	Workshop	Training	Seminar	Conference/ Symposia	Workshop
CA, Jorhat	131	29	18	39	14	6	8	4
BNCA	3	3	3	-	2	-	-	-
SCSCA	2	-	-	1	-	-	-	-
CVSc	20	4	-	-	1	5	-	3
LCVSc	14	-	3	-	-	-	-	-
CCSc	8	-	-	-	1	-	-	1
CFSc	8	-	-	-	-	-	-	-
CS	5	-	-	-	-	1	-	-
Total	191	36	24	40	18	12	8	8

Table: Number of Faculties attending training, seminar, conference, workshop etc. during 2018-19

College	National level				International level			
	Training	Seminar	Conference/ Symposia	Workshop	Training	Seminar	Conference/ Symposia	Workshop
CA, Jorhat	30	11	1	23	3	-	10	2
BNCA	5	4	-	8	-	1	8	-
SCSCA	7	-	-	-	-	1	1	-
CVSc	19	3	-	7	2	164	1	-
LCVSc	3	3	6	-	1	-	-	-
CCSc	11	2	3	12	-	-	9	1
CFSc	3	5	-	-	-	-	2	-
CH	2	2	-	-	-	-	2	-
CS	-	-	1	-	-	-	-	-
Total	80	30	11	50	6	166	33	3

Table: Number of Faculties attending training, seminar, conference, workshop etc. during 2019-20

College	National level				International level			
	Training	Seminar	Conference/ Symposia	Workshop	Training	Seminar	Conference/ Symposia	Workshop
CA, Jorhat	11	9	-	28	7	6	-	3
BNCA	2	6	-	-	-	1	-	-
SCSCA	-	-	-	5	-	-	-	-
CVSc	16	22	-	18	1	11	-	-
LCVSc	1	-	-	-	-	-	-	-
CCSc	7	2		5	1	2		1
CFSc	2	-	-	1	-	2	-	-
CH	5	1	-	1	-	2	-	-
CS	1	-	-	1	-	-	-	-
Total	45	40	-	59	9	24	-	2

6.6.5.3. Incentives for Excellence/Faculty Recognition.

Does the University is offering Best Teacher Award (ICAR) or any other means of recognition to promote excellence in faculty and other staff ? Give the list and selection procedure (in brief).

Assam Agricultural University offers Best Teacher Award (ICAR) as per the guidelines of ICAR in each year. Moreover, the University offers Best Researcher Award and Best Extension Worker award to the faculties. Another means of recognition to promote excellence in faculty is that the names of teachers/ scientists who are successful in securing research/ developmental schemes from external agencies are published in the 'AAU newsletter'. Teachers/ Employees, who receive recognition for their contribution to the society, are felicitated at establishment/ university level and their achievements are published in the "AAU Newsletter" and University Annual Report.

Selection procedure for "Best Teacher/Researcher/Extension Worker Award in Assam Agricultural University

The guidelines for these awards are as follows:

1. The scheme is extended to all the permanent faculty members of the Assam Agricultural University (AAU) who has completed at least five years of continuous service.
2. Title of this award is the "Best Teacher/Researcher/Extension Worker Award in Assam Agricultural University..... (year)."
3. The award carries a cash prize of Rs. 50000/- with a citation and a plaque for the best Teacher and Rs. 25000/- with a citation and a plaque for each of the best Researcher and Extension Specialist.
4. The award giving is an annual event either conferred at the Annual Convocation or in a function on Foundation Day of AAU every year.
5. The number of the awards in a particular year is ONE in each category.
6. The award is coordinated by Dean/ DPGS. Heads of Departments/Research Stations/KVKs can not apply for the award .The application form is invited by the Coordinator , which is to be submitted through respective Heads to the Deans/Directors. The Deans/Directors after having nomination from each Department/Research station/KVK will forward one name to the Coordinator. The Coordinator will receive the nomination from all Deans/Directors and all the nominations are to be put up to the Judgment Committee for its final recommendation. The Vice Chancellor approves one name, for each class of award, recommended by the Judgment Committee.
7. The applicant must have at least 5 years of teaching/research/extension experience as regular faculty member in a AAU.
8. The application/ proposals in prescribed format will be en routed through proper channel. It will be signed by the candidate and endorsed by at least three of his/her passed out postgraduate students (as major advisor) and two peers from Higher Agricultural Education Institutions (HAEI) in case of Best Teacher Award.

9. The candidate must have at least three ‘outstanding’, but not less than two ‘very good’ annual appraisal/self appraisal reports out of immediate past five reports.
10. The candidate is expected to be a role model teacher/researcher/extension worker with high moral values and must not have been penalized or any enquiry pending against him/her.
11. The judgment committee consists of
 - a. An external expert (not below the rank of Vice Chancellor) : One
 - b. Deans/Directors from other agricultural Universities nominated by the Vice Chancellor :Two
 - c. DDG (Agricultural Education) , ICAR ,New Delhi or his nominee : One
 - d. Coordinator : One
12. Decision of the judgment committee (after approval of the Vice Chancellor) will be final. There will be no appeal against it.

List of awardees

The list of recipient of Best Teacher Award (ICAR), best Research Scientist Award and Best Extension Scientist Award offered by Assam Agricultural University is as follows:

Year	Name and designation of Awardee	Name of the Award
2016	Dr. Palash Deb Nath, Professor, College of Agriculture, Jorhat	Best Teacher
	Dr. Probodh Borah, Professor, Dept. of Vety. Biotechnology, CVSc, Khanapara	Best Teacher
	Dr. Tamizuddin Ahmed, RARS, Titabor	Best Research Scientist
	Dr. Niranjana Kalita, Professor, Dept. of Poultry Science, CVSc, Khanapara	Best Research Scientist
	Dr. Rupam Borgohain, KVK, Jorhat	Best Extension Scientist
2017	Dr.(Mrs) Nivedita Deka, Professor, College of Agriculture, Jorhat	Best Teacher
	Dr. Mamoni Das, Professor, College of Community Science, Jorhat	Best Teacher
	Dr. S. K. Chetia, Principal Scientist, RARS, Titabor	Best Research Scientist
	Dr. Bibha Chetia Borah, Principal Scientist, FRC, Jorhat	Best Research Scientist
	Dr. Pranati Das, Professor, Deptt. of FSN, College of Community Science, Jorhat	Best Research Scientist
	Dr. H.K. Bhattacharyya, KVK, Dibrugarh	Best Extension Scientist
2018	Dr. K. N. Das, Professor, College of Agriculture, Jorhat	Best Teacher
	Dr. Badal Bhattacharyya, Principal Scientist, DR (Agri), Jorhat	Best Research Scientist
	Dr. C. K. Sarmah, KVK Bongaigaon	Best extension Personnel

6.6.5.4. Capacity Building and Training:

How many programme have been initiated towards developing and strengthening skills, instincts, abilities, processes and resources that the University and its stakeholders need to survive, adapt, and thrive in the fast-changing agricultural scenario?

The University has initiated various programmes towards developing and strengthening skills, instincts, abilities, processes and resources of the university as well as its stakeholders to cope and adapt with the changing agricultural scenario.

1. Deputation of faculties for attending International/ National/ Regional training, seminar, conference, workshop etc.
2. The comprehensive list of number of faculty deputed for attending different programmes is given under point No. 6.6.5.2.
3. Organization of International/National/Regional Training, Seminar, Conference, Workshop etc.

The University organized 580 International/ National/ Regional/ others training, seminar, conference, workshop etc. during 2015-16 to 2019-20. The year wise breakup of the organized events in different colleges of the University is presented below:

Table: Training, seminar, conference, workshop organized during 2015-16 to 2019-20

Particulars of event	2015-16	2016-17	2017-18	2018-19	2019-20	Total
International level training, seminar, conference and workshop	-	-	7	2	1	10
National level training, seminar, conference and workshop	7	22	37	56	23	145
Regional level training, seminar, conference and workshop	97	32	20	14	30	191
Others	5	30	77	55	67	234
Total	109	84	141	127	121	580

Besides organizing 580 nos. events during the last five years, the university has organized following programs recently:

- Intensive coaching of students for JRF and SRF preparation in online and offline mode
- Workshop on “Development of Soft Skills for Entrepreneurship among Agri-Graduates” under National Agricultural Higher Education Project
- National level e-training for students, teachers and other stakeholders.
- Arranging lecture series by experts from abroad under NAHEP programme.
- Career counseling programme for students
- Internship programme for students

- Exposure visit for students to renowned institution abroad
- Launching and implementation of NSS programmes
- Programme for students for physical and Psychological wellbeing
- Logistic support to student for excelling co-curricular activities

Programmes performed by Directorate of Extension Education through KVKs

(a) Certificate Courses

During the reporting period, the following certificate courses have been completed successfully. Till date, 22 of the trainees have started their venture in the fields of Aquaculture, Poultry, Goatery, Tea Husbandry, Apparel designing, Bakery and are becoming self-reliant.

Theme	No. of programmes	No. of participants
Apparel Designing and construction	5	94
Aquaculture production technology	1	23
Bakery	2	43
Cut flower production and floral design	1	20
Dairy Farming & Fodder Production	2	45
Dyeing & Printing of Textiles	1	20
Master Goat Production	2	45
Pig Farming	2	40
Poultry Production Technology	2	44
Tea production Technology & Management	8	194
Total	26	568

(b) Skill Training of Rural Youth (STRY) under MANAGE

A number of skill trainings have been imparted to the Rural Youth during the reporting period. These trainings were as per the guidelines of MANAGE. The major thematic areas in which trainings were imparted included the following:

- Cattle rearing & management
- Commercial Broiler farming
- Entrepreneurship development of rural youth and women through product making from jute
- Entrepreneurship development of rural women through product making from water hyacinth
- Entrepreneurship development of rural women through processed food products making from locally available fruits and vegetables
- Entrepreneurship development through commercial production of mushroom, its spawn and value addition

- Resource conservation
- Entrepreneurship development through Value added Fish Product
- Fish rearing and management
- Integrated Farming System
- Integrated Dairy Development
- Piggery Rearing and Management
- Mali training
- Nursery management of horticulture crops
- Oilseed, maize, oilpalm development
- Poultry rearing and management
- Production and use of organic inputs
- Skill development training on handloom
- Vocational training on Commercial production & value addition of oyster mushroom
- Vocational training on Scientific Bee keeping as a venture of income generation.

The year-wise numbers of skill trainings conducted are shown in the following table.

Table: Skill Training of Rural Youth (STRY)

Year	No. of Programmes	No. of Participants
2015-16	1	21
2016-17	18	431
2017-18	6	169
2018-19	9	256
2019-20	30	752

Salient milestones achieved from STRY programmes:

- Commercial production of vermicompost and vermiwash have been started by about 67% of skilled trainees
- Commercial production of mushroom has been started by about 60% of skilled trainees
- Commercial production of handloom products like Gamosa, mekhala sador, shirt piece etc. has been started by the skill trainees.

(c) Skill Development programmes under Agriculture Skill Council of India (ASCI)

During the last three years, 30 trainings covering 876 beneficiaries were conducted with financial support and technical guidance from Agricultural Skill Council of India. The skill trainings were conducted on following broad areas:

- Aquaculture worker
- Fish seed Grower

- Fish poly-culture
- Floriculturist- Open Cultivation
- Hatchery Production Workers
- Mushroom grower under ASCI
- Small poultry farmer
- Vermicompost producer
- Nursery Worker
- Quality seed grower
- Tea Plantation Worker

Table: Agricultural Skill Council of India (ASCI) training programmes

Year	No. of Programmes	No. of Participants
2017-18	1	20
2018-19	11	204
2019-20	28	652

6.6.6.1 Scholarships / Stipend

Is the University offering any scholarship programme for meritorious students? How many students are receiving competitive scholarships/fellowships for each College? How many passed out students have been selected for scholarships/fellowships in other universities.

Yes, Assam Agricultural University is offering the facilities of various scholarships to meritorious students such as State Merit Scholarship, ICAR National Talent Scholarship, INSPIRE, TAI Scholarship, ITA Scholarship, Bayer fellowship for M.Sc. Programme, Bayer fellowship for Ph.D. Programme, National Fellowship, UGC; Rajiv Gandhi Fellowship, Climate-Resilient Maize for Asia – Ph.D. Research scholarship, CIMMYT *etc.*

During the year 2016-17, 572 students of the University were either awarded fellowships or qualified for national test of which 53 were awarded Junior Research Fellowship, 51 Senior Research Fellowship, 10 DBT Fellowship and 133 were qualified for NET. In addition, 325 students (UG & PG) enjoyed merit and other fellowships during the year.

During 2017-18, altogether 307 students of the University were either awarded fellowships or qualified for national and state test of which 18 were awarded Junior Research Fellowship, 5 Senior Research Fellowship, 19 DBT Fellowship and 55 qualified NET. In addition, 108 students enjoyed merit scholarship. Apart from these, 102 students received other fellowships/ scholarships such as ICAR NTS, ICCR, IASF-III, ICPP *etc.*

In 2018-19, the number of students awarded fellowships and qualified for national/ state test was 287 of which 20 were awarded Junior Research Fellowship, 9 were awarded Senior Research fellowship and 125 qualified for NET. In addition, 131 students (UG&PG) were awarded merit scholarship.

Similarly, during the year 2019-20, the number of students awarded fellowships and qualified for national/ state test was 214 of which 19 were awarded Junior Research Fellowship, 14 were awarded Senior Research fellowship and 64 qualified for NET. In addition, 102 students (UG&PG) were awarded merit scholarship.

Numbers of Students from College of Agriculture, Jorhat receiving different scholarship/ fellowship during the period from 2016-17 to 2019-20 are as follows:

Fellowship/Scholarship	Academic session			
	2016-17	2016-18	2018-19	2019-20
State Merit Scholarship	1 st sem 86 nos 2 nd sem 85 nos	1 st sem 85 nos 2 nd sem 84 nos	1 st sem 76 nos 2 nd sem 77 nos	1 st sem 77 nos 2 nd sem 75 nos
ICAR National Talent Scholarship	1 st sem 24 nos 2 nd sem 25 nos	1 st sem. 25 no 2 nd sem, 25 no	1 st sem. 24 no 2 nd sem, 30 no	1 st sem. 29 no 2 nd sem, 30 no
JRF	6	9	10	7
SRF	1	5	3	13
DBT	10	19	0	0
NET/BET/GATE/ARS	6	28	70	23
NTS	3	0	0	0
INTS	1	0	0	0

INSPIRE	4	0	0	0
TAI Scholarship	2	0	3	0
ITA Scholarship	8	0	7	0
Bayer fellowship for M.Sc. Programme	1	0	0	1
Bayer fellowship for Ph.D. Programme	4	1	4	0
National Fellowship, UGC	1	0	0	0
Rajiv Gandhi Fellowship	3	0	0	0
Climate-Resilient Maize for Asia – PhD. Research scholarship, CIMMYT	3	0	0	0
BRAVE fellowship under the Erasmus Mundus programme	4	0	0	0
Newton-Bhaba PhD Placement Programme	1	0	0	0
Molulana Azad Minority Fellowship	1	0	0	0
RGN Fellowship	1	0	0	0
DBT-AAU Center PhD Fellowship	4	0	0	0

Numbers of Students from SCS College of Agriculture, Dhubri receiving different scholarship/ fellowship during the period from 2016-17 to 2019-20 are as follows:

Fellowship/Scholarship	Year			
	2016-17	2016-18	2018-19	2019-20
State Merit Scholarship	19	12	38	48
Ishan Uday	8	6	8	6
NTS	-	-	4	2
Others	-	-	3	1

Numbers of students from College of Community Science, AAU, Jorhat receiving different scholarship during the period from 2016-17 to 2020-21 are as follows:

Fellowship/Scholarship of UG students

Fellowship/Scholarship	Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
State Merit Scholarship	50	54	58	62	30
ICAR Scholarship	-	1	3	7	9

Fellowship/Scholarship for M.Sc. students

Fellowship/Scholarship	Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
State Merit Scholarship	14	17	13	24+1 (Manipur state scholarship)	18
ICAR Scholarship	2	2	7	9	3
JRF	1	3	4	2	1

Fellowship/Scholarship of Ph.D. students

Fellowship/Scholarship	Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
State Merit Scholarship	-	4	6	10	8
ICAR Scholarship	-	-	-	1	-
SRF		3		2	1
Others (Maulana Azad UGC Fellowship)	2	1	2	2	2
National fellowship and scholarship for higher education of ST students	-	2	2	2	2
National fellowship and scholarship for higher education on OBC students	-	-	1	1	1

Scholarship offered by other institutes (during their study outside the university)

Fellowship/Scholarship	2016-17	2017-18	2018-19	2019-20	2020-21
Avinashilingam Womens University	-	-	2	-	-

At College of Fishery Science, Raha, altogether 126 students availed scholarships/fellowships from the University during the period from 2016-17 to 2020-21 of which 105 numbers at Undergraduate level and 21 at Post-graduate level. Apart from that 32 students secured scholarship/ fellowship from other University / Institutions such as ICAR-Central Institute of Fisheries Education, Mumbai, KUFOS, Kerala, ICAR-Central Agricultural University, Tripura, WBUAFS, Kolkata, TANUVAS, Tamil-Nadu etc. for pursuing their Post-graduate studies.

College of Veterinary Science, Khanapara offers Undergraduate merit scholarships to 20% of the total number of students on roll in a class who secures a minimum CGPA of 7.00 on 10.00 scale. There is also provision for PG merit scholarship based on academic performance to 80% of the total number of students admitted in each of the department. Besides the university merit

scholarship, Department of Biotechnology, Govt. of India provides scholarship to 10 ten masters' students taking admission in Department of Animal Biotechnology. The numbers of Students from College of Veterinary Science, Khanapara receiving JRF & SRF during the period from 2016-17 to 2019-20 are as follows:

Year	JRF	SRF
2016	14	
2017		1
2018	4	
2019	2	
2020	2	

At Lakhimpur College of Veterinary Science, 20 % of the under graduate students getting G.P. of 7.00 or above are eligible to apply for State Merit Scholarship. Besides, students passed out from this college are receiving various competitive scholarship for pursuing their post graduate studies.

List of passed out students from LCVSc receiving competitive scholarship/ fellowship in other universities

Sl. No.	Name of the student	Presently pursuing degree	Institute currently studying in	Scholarship details
1	Dr. Dipankar Paul	MVSc	NDRI, Karnal, Haryana	NDRI Institutional Fellowship
2	Dr. Prince Rava	MVSc	NDRI, Karnal, Haryana	NDRI Institutional Fellowship
3	Dr. Imzamul Alam	MVSc	NDRI, Karnal, Haryana	NDRI Institutional Fellowship
4	Dr. Thomas Taye	MVSc	College of Veterinary & Animal Science, G.B. Pant University of Agriculture &	University Scholarship

			Technology	
5	Dr. Baishali Deb	MVSc	IVRI, Izatnagar	IVRI Institutional Scholarship
6	Dr. Satyabrat Dutta	MVSc	CVSc & AH, Selesih, CAU	ICAR National Talent Scholarship
7	Dr. Kaushik Poran Bordoloi	MVSc	CVSc & AH, Selesih, CAU	ICAR National Talent Scholarship
8	Dr. Kuldeep Kalita	MVSc	CVSc & AH, Selesih, CAU	CAU Institutional Scholarship
9	Dr. Sopun Joyti Bhuyan	MVSc	West Bengal University of Animal & Fishery Sciences	ICAR National Talent Scholarship

At Biswanath College of Agriculture, Biswanath Chariali, presently 20% of students admitted in each UG class are receiving State Merit Scholarship while for postgraduate degree programme, 80% of students enrolled in each discipline are receiving State Merit Scholarship

List of Passed out students from BNCA selected for scholarship / fellowship in other university

Sl No	Name	Present university name	Amount of the Scholarship	Name of the Scholarship	Passing year from BNCA
1	Abhijit Das	Dr. Rajendra Prasad Central Agricultural University	Rs.3000/- per month	ICAR-NTS	2017
2	Jyotim Gogoi	Central Agricultural University, Imphal	Rs. 3000/- per month	Merit Scholarship (M.Sc)	2017
3	Hilary Bordailoi	Jawaharlal Nehru Krishi ViswaVidyalya.	Rs.3000/- per month	ICAR-NTS	2017
4	Dipankar Saikia	Dr. Rajendra Prasad Central Agricultural University	Rs. 31,000/-PM	ICAR-SRF	2018
5	MRIDUPABA N DAS	Central Agricultural University, Imphal	Rs. 3000/- per month	Merit Scholarship (M.Sc)	2018
6	Udangshri Brahma	Sam Higginbottom University of Agriculture, Technology and Sciences.	–	–	2018
7	Farhanur Rahman	Sam Higginbottom University of Agriculture, Technology and Sciences.	–	–	2018

8	MANASI BARUAH	Central Agricultural University, Imphal	Rs. 3000/- per month	Merit Scholarship (M.Sc)	2018
9	LIZA KALTA	Central Agricultural University, Imphal	Rs. 3000/- per month	Merit Scholarship (M.Sc)	2018
10	Samudra kalita	Central Agricultural University, Imphal	Rs. 3000/- per month	Merit Scholarship (M.Sc)	2019
11	Jayanta Bora	Central Agricultural University, Imphal	Rs.3000/- per month	University Stipend	2019
12	Bidyut Pritom Gogoi	Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	Rs.5000/- per month	ICAR-NTS	2019
13	MITHU GOGOI	Uttar Banga Krishi Viswavidyalaya	Rs. 5000/- per month	ICAR-NTS	2019
14	ABHIJIT DAS	ICAR-NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL	Rs. 25,000/- pm	Institutional	2019
15	AVILUCHAN CHETIA	Vasantrya Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra	Rs 5000/-per month	ICAR-NTS	2019
16	Tanisha Gehlot	Acharya Narendra Deva College University of Agriculture and technology, Kumarganj, Ayodhya.	Rs.5000/- per month	ICAR-NTS	2019
17	NILUTPAL SAIKIA	BANARAS HINDU UNIVERSITY	Rs.12640/-pm	ICAR JRF PG SCHOLARSHIP	2020
18	Sakshi Sinha	Central Agricultural University, Imphal	Rs.3000/- per month	Merit Scholarship (M.Sc)	2020
19	Sanjukta chakraborty	Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	Rs.5000/- per month	ICAR-NTS	2020
20	Alongber Basumotary	Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	Rs.5000/- per month	ICAR-NTS	2020
21	Lakshmi jidung	Central Agricultural University, Imphal	Rs.5000/- per month	ICAR-NTS	2020
22	Niloy Adhikari	Central Agricultural University, Imphal	Rs.3000/- per month	Merit Scholarship (M.Sc)	2020
23	Sampriti Bormudoi	Acharya Narendra Deva College University of Agriculture and technology, Kumarganj, Ayodhya.	Rs.5000/- per month	ICAR-NTS	2020

No. of students qualified for JRF, SRF, NET or ASRB.

Year	JRF	SRF	NET	ASRB	Others
2015-16	63	4	11		10
2016-17	53	51	133	--	10 (DBT)
2017-18	18	5	35	--	19 (DBT)
2018-19	20	9	125	--	--
2019-20	19	14	64	--	--

6.6.6.2 Extra and Co-curricular Activities

Whether the sports/games/cultural activities/NSS/NCC/ programmes are being organized? If yes, then give the list of events in last five years in tabular form. Participation of students in ICAR sponsored events (Agri-unifest/ Agri-sports/ any other) and award/medals received in last five years may be given in Tabular form. How the students practice sports and games daily?

The students are provided with all facilities for co-curricular and extracurricular activities. The Student's Society/Union of each college arranges the co-curricular activities such as games, sports, athletics, drama, social services etc. NSS/NCC Programmes are also organized in each College as a part of social/national service. Every Under-graduate student of 1st and 2nd year classes of Faculty of Veterinary Science has to undergo the N.C.C. training as prescribed in syllabus. However, in case of foreign students, attendance in N.C.C. is exempted. Students of the Faculties of Agriculture, Community Science and Fisheries shall have to participate in N.S.S. programmes in lieu of N.C.C.

List of Events, participation of students in ICAR sponsored events and award/medals received in last five years

Event	YEAR	DETAILS
INTER COLLEGE MEET	2016-17	XXVII Inter College Meet: The XXVII Inter College Meet of Assam Agricultural University was celebrated amidst great fanfare in the CVSc, Khanapara Campus w.e.f 3 rd to 6 th March, 2017. Dr. K.M. Bujarbaruah, Hon'ble Vice-Chancellor declared the meet open. Shri Hiren Ch. Nath, IPS Commissioner of Police Guwahati, Assam was the Chief Guest in the inaugural function. The meet began with a colourful March Past competition amongst the constituent colleges and College of Horticulture bagged the 1 st prize. The overall best college was bagged by College of Veterinary Science, Khanapara, Guwahati including sports and culture. College of Horticulture was adjudged the best disciplined team. On the last day of the meet a colourful cultural function was organized.
AGRI-UNIFEST		AGRIUNIFEST: Assam Agricultural University participated in the 17 th All India Inter Agricultural University Youth Festival (Agriunifest) held in Rajasthan University of Veterinary & Animal Sciences (RAJUVAS), Bikaner during 22 nd to 25 th February, 2017. A group of 27 members participated in the event and bagged first prize in Spot Painting, second prize in Poster making, 4 th prize in Light vocal and 3 rd prize in Cultural Procession.
AGRI-SPORTS		AGRIUNISPORTS: Assam Agricultural University participated in the XVII All India Inter Agricultural Universities Games and Sports meet held at CCS Haryana Agricultural University, Hisar-125004 (Haryana) from 25 th to 29 th March, 2017.
NSS		There are 8 (eight) units of NSS at Assam Agricultural University,

	viz., College of Agriculture, Jorhat; College of Community Science, Jorhat; College of Horticulture, Jorhat; College of Sericulture, Jorhat, College of Fisheries Science, Raha, Biswanath College of Agriculture, Biswanath; Sarat Chandra Sinha College of Agriculture, Chapar and Lakhimpur College of Veterinary Science, Joyhing. All the NSS units are very vibrant and presently there are over 1700 NSS volunteers on roll every year who take part in various activities, campaigns and other regular camps detailed by the Ministry of Youth Affairs and Sports every year. World Environmental Day was observed by NSS Units of Assam Agricultural University, Jorhat on 5th June, 2016 at Assam Agricultural University, Jorhat. Plantation was done by the students. Digital India Workshop on 31st October, 2016 On 31st October, 2016 a workshop on Digital India was conducted at AAU, Jorhat. In the workshop more than 250 NSS volunteers participated and gained training on Digital applications. The participating NSS volunteers were from 8 different colleges of Assam Agricultural University. NSS Special Camp The NSS Special Camp was organized from November 28 – December 4, 2016 by the National Service Scheme Cell of Assam Agricultural University, Jorhat at Kachukhat Model Village (under Sansad Adarsha Gram Yojana), Titabor. The programme emphasized on solid waste disposal for environmental protection. On 1st December, World AIDS Day was also observed in the village by student's volunteers along with the villagers. First Agricultural Education Day on 3rd December, 2016 was observed in the camp. Medicinal plants and dustbins were distributed in the programme. Constitutional Day: Constitutional day was organised on 10th December, 2016 by AAU NSS units at Assam Agricultural University, Jorhat. International Women's Day International Women's Day was organised on 8th March 2017, by AAU NSS units at Assam Agricultural University, Jorhat. World Consumer Right Day 15th March, 2017 World Consumer Right Day was observed on the 15th March, 2017 by the NSSVolunteers of the College of Community Science, AAU, Jorhat at Gojpuria, Titabar. Swachh Bharat Abhiyan Cleanliness programme 'Swachh Bharat Abhiyan' was conducted on 19th March 2017, NSSVolunteers of College of Community Science, NSS Unit at Gojpuria L. P. School, Titabar. World Water Day 22nd March 2017 World Water Day was 22nd March 2017, was also observed by the
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		NSSVolunteers of College of Community Science, NSS at Gojpuria, Titabar.
NE YOUTH FESTIVAL		Four NSS volunteers of College of Agriculture, College of Home Science and College of Horticulture participated in the NE Youth Festival at Guwahati from January to 5 th to 9 th , 2017, organized by the NSS, Ministry of Youth Affairs & Sports, Govt. of India
ANNUAL COLLEGE MEET/ INTER COLLEGE MEET		Annual College Meet was organized by all the constituent colleges as usual during the year. Inter College Meet It was decided that the Inter College Meet which was an Annual event would be held every alternate year from this year onward and hence no Inter College Meet of the University was held this year.
AGRIUNIFEST		The Assam Agricultural University team participated in the 18 th All India Agricultural University Youth Festival (Agriunifest) which was held at Sri VenkateswaraVety University, Tirupati, AP during February 12-16, 2018. The AAU team bagged the Best Disciplined team award.
AGRIUNISPORTS		The Assam Agricultural University participated in the 18 th All India Inter Agricultural Universities Games and Sports meet held at UAS, Bangalore w.e.f 30 th January to 3rd February, 2018. A group of 24 students members participated in the event and MrAlongbarBasumatary, BNCA, AAU, bagged bronze medal in Long Jump (mens) event.
Annual conference of AIASA	2017-18	The Annual conference of AIASA was held in the Jorhat campus of the University on 23 rd & 24 th February, 2018. About 720 delegates and participants from more than 15(Fifteen) Agricultural Universities across the country participated in the conference.
NSS/NCC		World Environment Day: The World Environment Day was observed in eight NSS units (colleges) of AAU NSS Cell. A tree plantation programmes at Kachukhat (SAGY village), Titabar, Jorhat was also organized on the day. SwachhtaPakhwada by NSS Cell in all constituent colleges of AAU during August, 2017. The Theme takes was Swatch Bharat – <i>Clean India, Beautiful India</i> - As encouraged by the Ministry of Youth Affairs and Sports (Govt. of India) NSS Regional Office, Guwahati the Assam Agricultural University in its constituent colleges organized a massive SwachhtaPakhwada (Cleanliness fortnight) during August, 2017. Along with the rest of the country, this NSS Cell in collaboration with the Students' Societies, observed SwachhtaPakhwada during the month of August, 2017 at AAU campus. It was also observed in the

	other constituent colleges of AAU where the following activities were carried out. Above 800 NSS volunteers / students joined in the programmes on the eve of Independence Day. A Cleanliness drive (Swachh Bharat Abhiyan) by boarders in respective hostels and campuses was held in NSS Units of constituent colleges of AAU Jorhat and in the Jorhat university campus too. A Swachh Bharat Awareness procession by NSS volunteers in NSS Units of constituent colleges of AAU Jorhat was organised. In the AAU Jorhat campus, a Placard Competition amongst NSS volunteers was held. The volunteers held placards with slogans and messages on cleanliness. The response from the local residents was quite encouraging throughout the drive. The College of Fishery Science, Roha organized plantation of saplings on the occasion. Disaster – Preparedness Programme: A disaster - preparedness talk and demonstration for NSS volunteers, students and other officers/staff was organised on September 8, 2017 in the Dr. MC Das Memorial Auditorium, AAU Jorhat Campus with the help of the personnel and volunteers of the Civil Defense team, Jorhat District Administration. The programme was organised by NSS Cell and EEI, AAU, Jorhat. More than 300 NSS volunteers, students and other officers/staff attended the programme and expressed their satisfaction on the same. Foundation day of NSS Foundation Day of National Service Scheme was observed by the first year students in Assam Agricultural University, Jorhat on 24th September, 2017 NSS Day NSS Day 2017 was successfully observed on 24th September with the theme "Swachhta hi Seva (Cleanliness is service)" by volunteers of the AAU units AAU, Jorhat. On the occasion of NSS Day, a talk was delivered on the "Swachhta hi Seva (Cleanliness is service)" followed by discussion, presentation of cultural items and an essay competition. A Volunteer's Rally with placards was brought out with the active support of Students' Society, AAU, Jorhat. More than 500 UG and PG students participated in the event. All the eight NSS units observed the NSS Day in the different campus of AAU, Biswanath College of Agriculture also observed the day under the same theme. Blood Donation Camp held at AAU, Jorhat A Blood Donation Camp was organised by the National Service Scheme (NSS) Unit in collaboration with the Students' Society and JMC Blood Bank at Assam Agricultural University, Jorhat. Shri V Nimbalkar, IPS, Superintendent of Police, Jorhat and Md Imdad Ali, Addl. SP, Jorhat were present as distinguished guests in the inaugural session of the Camp who both stated that it was a noble act to donate
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		one's blood and encouraged all present. Dr D K Bora, DSW cum NSS Prog Coordinator, AAU delivered the Welcome Address and Dr D K Borah, Dean, College of Agriculture, AAU, Jorhat exhorted all students to keep up the rich tradition of AAU in donating blood as social service. In the Camp, about 20 students from all the colleges in the AAU, Jorhat campus voluntarily donated blood which was collected by the Blood Bank of Jorhat Medical College. National Unity Day The 'Run for Unity' was organised 30th October at Assam Agricultural University, Jorhat Campus on Rashtriya Ekta Divas (National Unity Day) to commemorate the birth anniversary of the first Home Minister and Deputy Prime Minister of India, Sardar Vallabhbhai Patel where students and NSS volunteers as well as the University teachers and employees participated. It was flagged off by Dr Dipak Kumar Bora, Director of Students' Welfare, AAU, Jorhat. In addition to the four NSS units (colleges), National Unity Day was also observed in the four other NSS units viz. LCVSc, Lakhimpur, SCS, CA, Dhubri, CFSc, Roha, and BNCA, Biswanath Chariali. Communal Harmony Campaign: As a part of Quami Ekta from 19th to 25th November, 2017 a series of programmes were organised by NSS volunteers of the constituent colleges, to campaign Communal Harmony and promote it among the students as well as the community through village awareness programmes. A series of talks and cultural presentations were made to highlight the themes -national integration, secularism, non-violence, linguistic harmony, anti-communalism, cultural unity, development of weaker sections.
PRE-RD CAMP		Two students Mr. Rituraj Hazarika & Ms. Archita Goswami of College of Agriculture participated in the Pre Republic Parade Camp, 2017-18 at Kalinga Stadium, Bhubaneswar, Orissa during 7 th to 16 th November, 2017.
REPUBLIC DAY PARADE CAMP		Ms. Archita Goswami, student of College of Agriculture was selected to attend the National Parade of Republic Day Celebration in New Delhi on 26 th January, 2018 representing the State of Assam.
SPECIAL NSS CAMP:		A 7 Days Special Camp under NSS was organized at Baghchung area, Jorhat w.e.f 13 th to 19 th November, 2017 where about 250 NSS volunteers from College of Agriculture, Community Science, Sericulture and Horticulture took part. The volunteers organized street plays on Social issues, Cultural programmes, plantation of saplings, training etc.
ANNUAL COLLEGE MEET	2018-19	As in the previous years, the Annual College Meets was organized by all the constituent colleges during the year.

/INTER COLLEGE MEET, 2019	The XXIX Inter College Meet of Assam Agricultural University was celebrated amidst great fanfare at the Jorhat Campus of Assam Agricultural University during February 20-23, 2019. Dr. K.M. Bujarbaruah, Hon'ble Vice-Chancellor declared the meet open. Shri Hrishikesh Goswami, Press Adviser to the Hon'ble Chief Minister, Govt of Assam was the Chief Guest at the inaugural ceremony. The IC Meet began with a colorful March Past competition amongst the teams of all constituent colleges of the University. The College of Horticulture was declared the best March Past team. The College of Agriculture, Jorhat led the medals tally in both the sports and cultural sections and was also adjudged the Best College of the XXIX Inter College Meet, 2019. A vibrant cultural function was organized to mark the end of the four day event.
AGRI-UNIFEST	Assam Agricultural University participated in the 19th All India Inter Agricultural University Youth Festival (Agri-Unifest) held in SardarkrushinagarDantiwada Agricultural University, Sardarkrushinagar during February 3-7, 2019. Assam Agricultural University team was represented by a 27 member students group. Miss Pragya Prerona of AAU bagged the first prize in the highly competitive Light Vocal competition. The AAU contingent also bagged the second prize in Cultural Procession, third prizes in Clay Modeling and Group Dance respectively.
NSS/NCC	Swachh Abhiyan (Cleanliness programme) and Tree Plantation programme: On the occasion of the 50th Foundation Day of Assam Agricultural University, the NSS Unit of BNCA organized a <i>Swachh Abhiyan</i> and Tree Plantation programme at the BNCA campus on April 1, 2018 where all teachers, employees and students of BN College of Agriculture participated. Blood Donation Camp: A Blood Donation Camp was organized by the NSS Cell jointly with Students' Society of Assam Agricultural University, Jorhat, in association with Blood Bank of Jorhat Medical College and Red Cross Society, Jorhat, in the Medical Unit of Assam Agricultural University on March 30, 2019. The camp was aptly handled by all Programme Officers of NSS units at Jorhat campus under the stewardship of Dr Sajib Baruah. In the camp 32 student volunteers of Assam Agricultural University donated blood and blood group of 50 NSS volunteers were identified for donation as and when needed. On April 7, 2018 the NSS Unit of BNCA organized a blood donation camp at BN College of Agriculture. The camp was inaugurated by Dr.R.N. Barman, Associate Dean, BNCA. The camp was conducted by Medical Officers and staff of Kanaklata Civil Hospital, Tezpur and Civil Hospital, BiswanathChariali. A number of NSS volunteers,

		teachers and employees of BN College of Agriculture voluntarily donated blood. International Day of Art of Giving: The International Day of Art of Giving was celebrated on May 17, 2018 at Boys' Juvenile Observation Home with 30 NSS volunteers of AAU, Jorhat campus. The NSS volunteers participated in the programme by sharing gifts to the boys' inmates. World Environmental Day: World Environmental Day was observed by all NSS Units Assam Agricultural University on 5th June 2018. Planting of saplings was done by the university students. At Jorhat, 200 NSS volunteers observed World Environmental Day by planting of saplings in the AAU campus and in the Village Phesual, Lahdoigarh, Jorhat. On 5th June, 2018 the World Environment Day was successfully conducted by the NSS Unit of BNCA at the BNCA campus. Dr. K.C.Deka, i/c Associate Dean, BN College of Agriculture inaugurated the programme and narrated about the importance of conservation of the environment and the problems associated with plastic pollution. To mark this occasion, a tree plantation programme was held in the campus where teachers, employees and NSS volunteers of BNCA actively participated. World Environment Day was celebrated with a day long programme in the College of Fisheries Science, Raha. All the student volunteers, faculty members and employees of the college wholeheartedly and enthusiastically participated in the programme. To mark the occasion, a cleanliness drive and Tree plantation was carried out in the college campus. Further, a Green initiative was undertaken through plantation of ornamental plants at Chaparmukh area and well protected by fencing the area. The NSS volunteers of CFSc have pledged to maintain these plants. An Awareness camp on "Detrimental Effects of use of Plastic" was also carried out at Chaparmukh H. S School. In the afternoon a street play named "<i>Sewaji Dharani Dhuniya</i>" by the NSS volunteers of the College of Fisheries Science was performed, to bring awareness on environment enrichment among the people of the locality. A series of competitions among the students were organized to create awareness on environment related issues such as essay writing competition, poster making competition etc were also conducted among the students. A plantation drive was organized Around by the NSS Unit, LCVSc in the College premises of Lakhimpur College of Veterinary Science, Joyhing. A lecture was delivered by Associate Dean, SCSCA to the NSS volunteers and the students of Rangamati High School on the occasion of World Environment Day, 2018 at SCSCA, Chapar. An audio visual presentation on how plastic is spoiling the entire environment was presented by the NSS Programme Officer of SCSCA. The NSS
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		volunteers organized a tree plantation programme in the school compound of Rangamati High School. International Day of Yoga: About 350 volunteers of the NSS Units of the constituent colleges of AAU, Jorhat campus participated in the Yoga camp held in the campus on International Day of Yoga on June 21, 2018. The NSS Unit, BNCA observed International Day of Yoga on June 21, 2018. Under the guidance of Sri Nitya Sharma, Coach, Biswanath District Body Builders Association a demonstration on Yoga was held for the benefit of the teachers and students of BNCA. In the morning, the NSS Unit, CFSc, Raha organized a Yoga Demonstration camp under the guidance of renowned Yoga Gurus from the Raha locality. This was followed by a seminar on Yoga which was attended by NSS volunteers, teachers and employees of the College of Fisheries Science, Raha. To mark the occasion, a Yoga session to create awareness on the role of Yoga in daily life, involving NSS volunteers, teaching and non-teaching employees, was conducted at the Lakhimpur College of Veterinary Science, Zoyhing. The NSS unit of SCSCA enthusiastically celebrated the third International Day of Yoga in the premises of SCSCA, Dhubri. All the students, faculty members and staff of SCSCA took part in this celebration. A Yoga Guru was invited to the College on the occasion, who demonstrated the <i>asanas</i> for the benefit of all present. Yoga was practiced by all participants, as demonstrated by the invited Yoga Guru. The Yoga guru also delivered a lecture on the importance of nourishment of the mind, body and soul through yoga. SwachhtaPakhwada: To create awareness on maintenance of cleanliness, the SwachhtaPakhwadaProgramme was organized by the NSS Units of all colleges of AAU Jorhat campus, from August 1-15, 2018. All statutory officers, teachers, Programme Officers and 400 NSS volunteers participated in the programme in and around hostels, campus and nearby villages. A drive was also taken up in the Lichubari market area. The SwachhtaPakhwadaprogramme was organized by the NSS Unit, BNCA from August 1-15, 2018. Besides cleaning the BNCA campus, NSS volunteers, teachers and employees of the College participated in a cleanliness drive in the nearby Gorehagi M.E. School campus. Dr. R.N.Barman, Associate Dean inaugurated the programme and stressed on the importance in maintenance of cleanliness and human health. During this programme a painting competition was organized among the NSS Volunteers by the NSS Unit of BNCA. During the programme, the NSS volunteers interacted with school students of Gorehagi M.E. School regarding the benefits of maintaining the school campus clean. In the College of Fisheries
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		Science, Raha, various activities were performed by the volunteers under SwachhtaPakhwada. On August 1, 2018, the Programme Officer, NSS Unit, College of Fisheries, AAU, Rahabriefed the B.F.Sc 1st Year students about objectives of NSS and role of NSS volunteers in Swachha Bharat Abhiyyan and SwachhtaPakhwadaprogrammes. A Seminar on Swachhtawas organized followed bySwachhtaShapath (Oath) by all NSS Volunteers. In the first week, a cleanliness drive, in all students' hostel campuses, was conducted through active participation of all NSS volunteers of the NSS CFScRaha unit. Classrooms, laboratories, libraries, toilets, auditoriums, playgrounds, roads, surroundings of hostels etc were also cleaned during this period. During the second week, NSS volunteers visited the adopted village and conducted a door to door campaign to make the local masses aware about the importance of cleanliness in their surroundings and explained to the masses about the detrimental effects of Open Defecation. During this period, the MahadeosalArchaeological site was cleaned by the NSS volunteers. Awareness camps on Swachhata among the teacher and students of Vineyard English School and Bagariguri P. N. Tamuli High School were organized during the SwachhtaPakhwada. A placard competition was organized amongst NSS volunteers to reflect Swatchhata messages in Assamese, English and Hindi languages. Three slogans were selected for giving award. An essay competition was also organized on the topic 'Impact of SwachhbharatAbhiyyan' among the NSS volunteers. A Rally was organized depicting various messages of cleanliness on banners and placards to create awareness among the masses. The SwachhtaPakhwada culminated with a cleanliness programme by the NSS volunteers in and around the college campus on August 15, 2018 after which the NSS volunteers took part in the hoisting of the National Flag on the auspicious occasion of 72nd Independence day of India. The flag was hoisted by the Dean, College of Fisheries Science, Raha. During the fortnight, a cleanliness drive in the classrooms, laboratories and departmental premises of the LCVSc, Joyhing was conducted. The NSS Unit Volunteers of LCVSc enacted a play depicting importance of cleanliness and healthy hygiene and an interactive session with school students was also held. A rally with placards, on the importance of cleanliness as a part of the SwachhtaPakhwadaprogramme was organized by the NSS Unit Volunteers of LCVSc, from the College campus to Joyhing market area. An essay competition was organized among the NSS volunteers of SCSCA on the topic "What can I do for a clean India?" on August 10, 2018. As a part of SwachataPakhwada, a cleanliness drive was organized on 12th August, 2018 by the NSS unit of SCSCA at Gandhi Maidam, Chapar, Dhubri. The main purpose of this programme was to create awareness among the people of the area
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		regarding Cleanliness. There is a statue of former Chief Minister of Assam Sarat Chandra Sinha at Gandhi Maidam. A team of NSS volunteers lead by Dr. Ranjit Sarma, Associate Dean and Ms Manashi Hazarika, NSS Programme Officer, SCSCA, Dhubri, cleaned the statue as well as the surroundings. Local people and a team lead by the circle officer of Chapar Mr. Nabajit Pathak also joined in the cleanliness programme to encourage the NSS volunteers by observing their spirit. Gandhi Jayanti: The NSS Unit of BNCA celebrated the 150th Birth Anniversary of Mahatma Gandhi on October 2, 2018. On the occasion NSS Unit organized a cleanliness programme at BN College of Agriculture campus. NSS Volunteers, teachers and employees of the college participated in the programme. After paying homage to the father of the Nation, Mahatma Gandhi, a cleanliness programme was organized in the College of Fisheries Science, Raha with participation of all students, teachers and employees. NSS Unit Volunteers of LCVSc conducted a special cleanliness drive in the college premises and an essay writing competition on the topic “<i>Significant speeches of Mahatma Gandhi after independence</i>” was organized. Foundation Day of NSS: Foundation day of National Service Scheme was observed by 300 NSS volunteers at Assam Agricultural University, Jorhat on September 24, 2018. The NSS Unit BNCA celebrated NSS Day at Gorehagi Village, Biswanath Chariali. The day began with NSS volunteers of BNCA Unit, school students along with teachers from the school and BNCA carrying out a cleanliness drive in the Gorehagi school campus and its surroundings. The NSS unit volunteers and Programme Officer spoke about the history of NSS, Swachhta Hi Sewa campaign programme at Gorehagi M.E. School. NSS volunteers also organized a demonstration cum awareness programme on the benefits of keeping oneself clean by resorting to various healthy practices such as hand washing etc. NSS Day was celebrated with active participation of NSS volunteers under the theme Swachhta Hi Sewa (SHS). A cleanliness programme was conducted in the college and hostel campus followed by plantation programme in the morning session. A rally with placards to create awareness on benefits of Hand Washing in the college and adopted village was organized followed by a demonstration cum awareness programme on hand-washing in the adopted village. On the occasion of NSS Day, a meeting was organized at SCSCA, Dhubri. All the teachers, students and staff of this college took part in the meeting. Associate Dean and faculty members deliberated on the role of NSS
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		volunteers towards the well being of the society and on the importance of NSS activities. Disaster Preparedness Drill and Demonstration: A disaster preparedness drill and demonstration was organized by the NSS units of the constituent colleges of AAU Jorhat campus, in association with the Civil Defence wing of the Jorhat District Administration, on September 28, 2018. Over 300 NSS volunteers participated in the programme and were educated on the importance of preparedness in the event of various types of disasters such as earthquakes, fire, floods etc. The programme included lecture sessions and mock drills in first aid, rescue and evacuation operations, where all volunteers actively participated. National Unity Day: The Birth Anniversary of Sardar Ballabhai Patel was also celebrated on October 31, 2018 by the NSS Units of the constituent colleges of AAU, Jorhat campus, where 250 volunteers participated. The NSS Unit, BNCA participated in the Run for Unity programme, organized by the District administration, Biswanth, on the the occasion of birth anniversary of the Iron man of India, Sardar Vallabhbhai Patel, on October 31, 2018. World AIDS Day: World AIDS Day was observed in the AAU Jorhat campus to create awareness among the students. Ribbons were distributed among the statutory officers of the university, students and public on World AIDS Day. The World Aids Day was also observed in the College of Fisheries Science, Raha on December 1, 2018. An open session was organized at the campus where teachers and NSS volunteers interacted on the importance of awareness among students and role of student community.
BRICS INTERNATIONAL YOUTH SUMMIT		Miss Archita Goswami, NSS volunteer from the College of Agriculture, Jorhat attended the BRICS International Youth Summit at Bela-Bela, Zebula Estate, Limpopo Province during July 15-20, 2018, as a member of the Indian Youth delegation.
PRE- REPUBLIC DAY PARADE CAMP:		Two students namely (i) Miss Dixita Rajkhowa, 2 nd Year, College of Horticulture and (ii) MrPriyamjit Roy, 2 nd Year, College of Agriculture, participated in the Pre-Republic Day Parade Camp organized by the Ministry of Youth Affairs and Sports, National Service Scheme, Government of India, Regional Centre, during 15 th October to 15 th November, 2018.
REPUBLIC DAY PARADE CAMP		Miss Dixita Rajkhowa, 2 nd Year, College of Horticulture was selected for the Republic Day Parade Camp-2019 organized by the Ministry of Youth Affairs and Sports, National Service Scheme, Government of India, Regional Centre, at New Delhi from January 1-31, 2019.

NATIONAL INTEGRATION CAMPS/OTHER CAMPS		Six NSS volunteers selected from the Colleges of Agriculture, Community Science, Fisheries Science and Bishwanath College of Agriculture, Assam Agricultural University, participated in the National Integration Camp organized by the NSS, Ministry of Youth Affairs & Sports, Government of India, at Rabindranath Tagore University, Bhopal, Madhya Pradesh during March 10-16, 2019. Eight NSS volunteers selected from the Colleges of Agriculture, Sericulture and Horticulture, Assam Agricultural University, participated in the National Integration Camp organized by the NSS, Ministry of Youth Affairs & Sports, Government of India, at Chandigarh, during March 24-30, 2019. A NSS Special Camp was organized by the NSS volunteers placed under RAWEP at KVK Teok during September 5-11, 2018. In the camp 35 volunteers took up awareness programmes on maintenance of cleanliness and hygiene in the village households, did street plays to create awareness on environmental issues and also educated the rural masses as a part of the SVEEP programme of the Govt of India. 350 NSS volunteers actively participated in the NSS Special Camp held during November 17-23, 2018 in the village near AAU Jorhat campus
ADVENTURE CAMP		6 (six) NSS volunteers from AAU participated in the NSS Adventure Camp at NIMAS, Dirang, Arunachal Pradesh held during November 25-December 4, 2018.
NORTH EAST NSS FESTIVAL		Seven NSS volunteers selected from the Colleges of Agriculture, Community Science, and Sericulture, Assam Agricultural University, participated in the North East NSS Festival, organized by the NSS, Ministry of Youth Affairs & Sports, Government of India, at Don Bosco University, Tepesia, Sonapur during March 18-22, 2019.
AGRI- UNISPORTS	2019-20	20th All Inter-Agricultural University Sports and Games Meet (Agri-UniSports): It was a golden performance by the AAU contingent in the 20th All India Inter Agricultural University Sports & Games Meet, held at Sri Venkateswara Veterinary University campus in the temple town of Tirupati from March 1 - 5, 2020. A total of 65 Universities from Agriculture, Veterinary, Animal Science, Fishery Science and other allied disciplines, across India, came together for the annual sporting extravaganza. Assam Agricultural University was represented by a 33 member students group and led by Professors-in-Charge, Dr Sailen Gogoi & Dr Apurba Das. The AAU team participated in four disciplines. AAU athletes' attained 5th position in Mens' High Jump and entered up to the 100 m Mens' Quarter Finals stage, 4 x 100 m Relay Mens' Semi-Final stage. In the Women's 200 m event, the lone AAU athlete reached the Quarter-Finals stage. The performance of the AAU Team in Badminton was outstanding. Both the Mens' and Womens' Teams won medals in this highly competitive event. In the

	Women's section, AAU defeated PAU, Ludhiana in Quarter-Final but went down to the eventual Champion TNAU in Semi Final. However, the team easily tamed BAU, Ranchi for the Bronze medal. On the way to the Final, our Men's team smoothly overpowered ANGRAU, Hyderabad in the Semi-Finals and defeated CCSHAU, Hisar in straight sets to clinch the maiden Team Gold medal for the University. The brilliant individual performance by Mr Anshuman Raj Saikia in Badminton and MsAjupiPhukan in Table Tennis could win the hearts of spectators, players and the team coaches alike.
AGRI-UNIFEST	19th All India Inter Agricultural University Youth Festival (Agri-Unifest): Assam Agricultural University participated in the 19th All India Inter Agricultural University Youth Festival (Agri-Unifest) held in IGKV, Raipur during February 8-12, 2020 Assam Agricultural University team was represented by a 27 member students group. The AAU contingent also bagged the fourth prize in One Act Play.
NSS/NCC	International Yoga Day: International Yoga Day was celebrated on 21st June, 2019 by NSS units, faculty members, employees in the different campuses of the university. Resource persons with expertise, both from within and outside the university, along with the yoga enthusiasts performed various <i>asanas</i> for peace, health and harmony. In the Jorhat campus, resource persons were invited from Vivekananda Kendra to facilitate the event. Dr Seuji B Neog, faculty member and her group assisted the resource persons besides performing the <i>asanas</i>. Independence Day, 2019: Independence Day was celebrated in Assam Agricultural University with great enthusiasm. On the occasion of Independence Day, a 'Swachh Bharat Awareness' procession by NSS volunteers / students, in and around the AAU Campus was held. A Placard Competition on the theme "Swachh Bharat – Clean Campus, Green India", was held amongst the NSS volunteers. The procession was flagged off by the Hon'ble Vice-Chancellor (Acting) Dr Ashok Bhattacharyya, in presence of statutory officers, teachers and students of AAU, Jorhat. An essay competition was organized by NSS on the theme: "Swatchh Bharat – Clean Campus, Green India". Cleanliness Drive (Swachh Bharat Abhiyan): A Cleanliness drive (Swatchh Bharat Abhiyan) was organized by the NSS Units of AAU, Jorhat campus during August 6-14, 2019. Hostel boarders cleaned their respective hostels, surroundings and nearby locations around the AAU Jorhat campus. Special cleanliness drive in each hostel was also undertaken on Sunday the 11th August, 2019 where the sole objective was to remove all plastic scrap in and around hostel campuses. Communal Harmony Campaign Week-2019 which coincided with the special camp. There were also presentations by school students from <i>SPB HS School, TitaramBordoloi HS School, Matri Bhasha Vidyalaya, Sonari Gaon ME School</i> and local youth of the villages.

	The closing programme culminated with a Bihu dance presented by the NSS volunteers. NSS Programme Officers Dr Sajib Boruah, Dr Sampreety Gogoi, Shri Rituraj Boruah and Shri Apurba Das coordinated the week long NSS Camp. Shri Spandan Jyoti Bordoloi, an employee of Assam Agricultural University, Jorhat and local youth of the Na Ali Dhekiajuli Yuva Sangha, Jorhat facilitated the programme.
PRE-REPUBLIC DAY PARADE CAMP	Four students namely Mr. Kishore Jyoti Bhuyan, Mr Bicky Boro, College of Agriculture, Ms Barsha Das PG student, and Ms Prerana Das of College of Sericulture participated in the Pre-Republic Day Parade Camp, organized by the Ministry of Youth Affairs and Sports, National Service Scheme, Government of India at the Regional Centre at National Institute of Technology, Durgapur, Kolkata, West Bengal during November 8-17, 2019.
REPUBLIC DAY PARADE CAMP	Miss Prerana Das, 3rd Year, College of Sericulture was selected to attend the Republic Day Parade Camp, 2019 organized by the Ministry of Youth Affairs and Sports, National Service Scheme, Government of India, Regional Centre, at New Delhi from January 1-31, 2020.
NSS TRAINING	Three faculty members of the National Service Scheme (NSS), namely Dr. Pranjit Sutradhar of College of Agriculture, Jorhat, Dr. Aditya Boruah, NSS Programme Officer of Lakhimpur College of Veterinary Science, Joyhing, Mr. Rituraj Boruah, NSS Programme Officer of College of Horticulture, Jorhat attended a “Training for Trainers on Life Skills” at the Rajiv Gandhi University, Itanagar, Arunachal Pradesh during September, 16-20, 2019
NSS WORKSHOP	Two faculty members, namely Dr. Pranjal Pratim Neog, NSS Programme Officer of Biswanath College of Agriculture, Mr. Apurba Das, NSS Programme Officer of College of Sericulture, Jorhat and one NSS student volunteer, Sri Nirvikar Shahi, of College of Community Science, Jorhat attended a workshop on “Challenges and Opportunities in NSS in the state of Assam, for NSS volunteers and Programme Officers of NSS” at the Don Bosco Institute, Kharguli, Guwahati, during September, 26-27, 2019.
NSS SPECIAL CAMP	A week-long NSS Special Camp was organized by the National Service Scheme (NSS) Cell of Assam Agricultural University, Jorhat during November 19-25, 2019 at the Na-Ali Dhekiajuli Yuva Sangha Hall. More than 250 NSS volunteers participated in the week-long NSS Camp that was inaugurated at the same venue on November 18 and comprised of various Awareness programmes amongst the people covering 6 villages of the Na-Ali Dhekiajuli area. The DSW and Programme Co-ordinator of NSS, AAU, Jorhat, expressed his gratitude to the local leaders and people, for the privilege that students in technical institutions like AAU got to mingle with the local people with the purpose of sensitizing them on various social issues and evils.

		Shri Hemanta Mangal Bordoloi, President, Na-Ali Dhekiajuli Yuva Sangha, Jorhat expressed his appreciation to Assam Agricultural University and NSS volunteers as they had come to the villages to sensitize the village people on important social issues. Swacch Bharat Cleanliness drives were organized with the participation of the villagers and NSS volunteers in 6 (six) locations viz., <i>Haluwagaon</i>, <i>Dhekiajuli</i> and <i>Baghchung</i> areas. The closing ceremony was preceded by a brief tree sapling plantation programme. The Director, EEI, speaking as Chief Guest in the Closing Ceremony on November 24, 2019 at the Na Ali Dhekiajuli Yuva Sangha Hall appealed to all to make individual efforts to maintain the rich cultural ethos and human values that have been inherited from our forefathers in order to maintain the dignity and rich traditional heritage of the state, region and the nation. The Best NSS volunteers of the special camp were awarded during the closing ceremony. There were colourful cultural presentations presented by the NSS student volunteers of Assam Agricultural University, Jorhat with recitation, skits, dances and songs. The 7-sisters presentation by a group of NSS volunteers was a special attraction of the programme, which highlighted the theme “Communal Harmony for Peace and Prosperity”.
		The students of Assam Agricultural University, Jorhat attended a talk by Mr Sunil R. Parekh on “Dream and Passion: StartUps” in the Dr M.C.Das Memorial Auditorium on 10th May, 2019. Mr Parekh is the Chief of Strategy and Corporate Affairs, Zydus Cadilla, Ahmedabad; Founding Curator, World Economic Forum (WEF) Geneva, Board Member of 2 (two) business incubators viz., National Design Business Incubator (NDBI) at the National Institute of Design (NID) and Centre for Innovation & Entrepreneurship (CIIE) at IIM, Ahmedabad. The lecture followed by an interactive session benefitted the students immensely.
WORKSHOPS		Career Orientation Workshop" in various colleges of Assam Agricultural University, Jorhat: Career Orientation Workshop" at Assam Agricultural University, Jorhat: Agripositions.com and Assam Agricultural University, Jorhat conducted a "Career Orientation Workshop" at Assam Agricultural University, Jorhat to sensitize the students about future career prospects in Management in Agriculture, Agri-Engineering, Dairy Tech, Veterinary, Fishery, Food Tech, Horticulture and other allied streams. The Workshop was held on September 3, 2019, at the Dr M.C. Das Memorial Auditorium, AAU, Jorhat. Mr Saurabh K Pandey, CEO - ISAB & Skill Advisory and an alumnus of GBPUA&T, Pantnagar and IIM Ahmedabad, acted as Lead Speaker. The Workshop was also organized in different constituent colleges of Assam Agricultural University to sensitize the students about future career prospects in Management in Agriculture, Agri-

		Engineering, Dairy Tech, Veterinary, Fishery, Food Tech, Horticulture and other allied streams. The Workshop was held during September 2-5, 2019 . Mr Saurabh K Pandey, CEO - ISAB & Skill Advisory and an alumnus of GBPUA&T, Pantnagar and IIM-Ahmedabad and Mr Narayan Singh Rao, Director, Prakritik Power Pvt Ltd and CEO, the Indian Iris and an alumnus of IIT-Roorkee and IIM- Ahmedabad, acted as Lead Speakers.
10TH BHARATIYA CHATRA SANSAD		A delegation comprising of 8 (eight) student leaders namely Shi Jogot Jyoti Baruah (CA), Parsha Bharadwaj (CCSc), Dhrubajyoti Mudoi (CCSc), Kanak Keot (LCVSc), Imran Hussain (CFSc), Jyotirmoy Borgohain (SCSCA), Prabal Malla Baruah (CS), Y. Londilong Sangta (CH) attended the 10 th edition of the Bharatiya Chatra Sansad on the theme “Inspiring Youth, Strengthening Democracy”, held at Vigyan Bhavan, New Delhi during February 20-23, 2020.
AAU WORKSHOP ON AUDIO-VISUAL SKILL DEVELOPMENT, DOCUMENTARY AND FILMMAKING		Assam Agricultural University, Jorhat in association with National Agricultural Higher Education Project (NAHEP) hosted a one-of-a-kind intensive 10-day filmmaking workshop titled <i>CINEMA VERITE</i> from November 20-30, 2019. Heading the mission, film director Shankar Borua, a Ph.D. in Mass Communications from Texas Tech University, US and his team imparted basic documentary/filmmaking skills to a group of enthusiasts and aspiring documentary makers and filmmakers interested in writing, directing and producing motion pictures and documentaries using low-cost digital technologies. This unique training and educational endeavor, the first of its kind at the Assam Agricultural University campus, was highly beneficial to the 25 participants, including 19 under-graduate students from the Colleges of Community Science and Agriculture and 4 technical persons from the Krishi Vigyan Kendras of AAU. The undergraduate students of university were sponsored by P.I., NAHEP (Component 1) as a part of its skill development initiative. During the workshop, a total of 7 (seven), 5 fiction and 2 technical documentaries, were produced in record time. All the 7 (seven) productions were screened to a packed audience of students and faculty of AAU at the Dr M.C. Das Memorial auditorium on the evening of 29 th November, 2019 to a rousing applause. The valedictory ceremony, held on 30 th November, 2019, was attended by the Registrar, AAU; Deans, College of Agriculture and College of Community Science, Director of Students Welfare and the P.I., NAHEP among others. Certificates were handed out to the 25 participants for successfully completing the film production workshop.
NSS	2020-21	Covid Awareness programmes undertaken by NSS Volunteers in different districts: NSS volunteers from the eight constituent units of Assam Agricultural University were actively involved in various activities during the

	lockdown period. The activities were also shared by the volunteers through social media popularizing educating and motivating the public for making of face masks at home. Most of the volunteers registered their names in the iGOT Portal for MoYA training. Wherever there was no problem of network connectivity, NSS volunteers downloaded and used the AarogyaSetu app and trained the local people to download and use this app. NSS Programme Co-ordinator and Programme Officers downloaded AarogyaSetu App. ▪ Mr. Nibir Baruah, NSS volunteer of BN College of Agriculture, AAU organized an awareness programme on Covid 19, for the people of Kenduguri, Jorhat. The importance of sanitation and hand washing, as precautionary measure, was highlighted. A demonstration was conducted on scientific hand washing to prevent Covid 19. The participants learnt about the scientific process of hand washing. ▪ Ms. KuranganaChutia, Ms. Amisha Das and Ms. Bandana Sinha, NSS volunteers of BN College of Agriculture, AAU prepared posters on Awareness and prevention against corona virus and displayed these posters in public places of their respective localities viz., BiswanathChariali, Guwahati and Silchar. ▪ Mr. PriyamKafle, Mr. ShyamalinRajmedhi and Mr. Geetarth Bharal, NSS volunteers of B.N. College of Agriculture, AAU, BiswanathChariali prepared leaflets in local language to create awareness about Covid-19 and distributed among the people of their respective localities in Thelamora (Sonitpur), Nalbari and Nagaon. ▪ Mr. SaumyajyotiSuklabaidya, NSS volunteers of B.N. College of Agriculture, AAU, prepared face masks for family members and also distributed masks in his neighborhood in Jorhat ▪ Mr. Kuldeep Saikia, NSS volunteer of BN College of Agriculture, AAU prepared an Assamese rap song and uploaded in Social Media. Almost all NSS volunteers of BN College of Agriculture downloaded the <i>AarogyaSetu</i> App and also shared information on steps of downloading the app among their respective neighborhoods. NSS volunteers also shared the video for preparation of face mask among families and friends.
	Sanitization Drive: Programme Officers of the NSS units of AAU, Jorhat supervised a sanitization drive by members of 'Raksha', an NGO on May 22, 2020 at Jorhat Medical College & Hospital, Jorhat Central Jail, Assam Agricultural University, Jorhat campus and areas under Charaibahi Gaon Panchayat.

		Menstrual Hygiene Day: The “Red Dot Challenge” is an initiative taken by United Nations Children’s Fund (UNICEF) to talk about periods and menstrual hygiene and is now gaining attention, with people coming forward to raise awareness about menstruation. A campaign on “Red Dot Challenge” was observed in the Lakhimpur College of Veterinary Science, during May 20-28, 2020. World No-Tobacco Day: Over 100 NSS volunteers of Assam Agricultural University participated in the webinar organized by the Assam Cancer Care Foundation and State Tobacco Control Cell on May 31, 2020. World Environment Day: World Environment Day was observed by all NSS units of Assam Agricultural University on 5th June, 2020. A tree plantation programme was held at Charaibahi and Fesual Gram Panchayat by NSS Unit, Assam Agricultural University, Jorhat in collaboration with the Extension Education Institute, (Govt. of India). Officials of NamoniCharaubahi Gram Panchayat and Society for Rural Agro-tourism & Conservation of Biodiversity, Fesual and NSS Programme Officers, NSS volunteers planted saplings followed by a cleanliness drive around the campus. World Environment Day was successfully conducted by the NSS Units of SCSCA, Dhubri campus, BNCA, BiswanathChariali Campus, CFSc, Roha Campus and LCVSc, Lakhimpur campus. A tree plantation programme was held in the all campuses where teachers, employees and NSS volunteers of all colleges actively participated. NSS volunteers participated in a one-day online workshop on <i>Swachhta</i> Action Plan organized in association with Mahatma Gandhi National Council of Rural Education on June 5, 2020 International Yoga Day: About 350 volunteers of the NSS Units of the constituent colleges of AAU, Jorhat campus participated in the Yoga camp in Virtual Mode on June 21, 2020. Under the guidance of Vivekananda Kendra Kanyakumari, Jorhat a demonstration on Yoga was held for the benefit of the teachers and students of all constitute colleges. Earth Day: Earth Day was observed in all NSS units of Assam Agricultural University on 9 July, 2020. All units organized online art and photography contests among NSS volunteers. Ek Bharat Shresth Bharat: The concept of a structured cultural connect between people of different regions was given by Prime Minister Shri Narendra Modi during the Rashtriya Ekta Divas held on October 31, 2015, to
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		commemorate the birth anniversary of Sardar Vallabhbhai Patel. In EBSB, Assam has been paired with Rajasthan. Such programmes have helped in promoting the spirit of National Integration. Programme Officers and NSS volunteers of all constituent colleges participated in the webinar on Ek Bharat Shresth Bharat organized on July 22, 2020. An EBSB online programme was organized jointly by NCC and NSS during August 8-13, 2020. It was held online due to the prevailing pandemic situation. MsSumedha Agarwal, NSS volunteer participated in this event as a representative from Assam Agricultural University, Jorhat. There were participants from all over the state and participants were enlightened with the knowledge on various states, their culture and traditions and also some live demonstrations showed by some volunteers. Certificates were awarded to the participants. Aatmanirbhar Bharat- Swatantra Bharat quiz: As a part of Independence Day Celebrations 2020, a nationwide online quiz competition on “Aatmanirbhar Bharat – Swatantra Bharat” was conducted by the Ministry of Defence in coordination with MyGov in order to create a patriotic feeling among youth and masses, on 29th July, 2020. MsBidisha Kashyap, College of Sericulture and MoharnabSandilliya, BNCA, NSS Volunteers participated in the Quiz Programme. Fit India Movement and Fit India Freedom Run during 15th August – 2nd October: NSS Volunteers of the Colleges of Agriculture, Community Science, Horticulture and Sericulture celebrated the Fit India Freedom run Youth club camp and Run for India on August 15, 2020. The Programme Co-ordinator, NSS Programme Officers and volunteers viewed the inaugural webcast programme of <i>RashtriyaSwacchata Kendra</i> (RSK) on 8th August 2020. The NSS unit of LCVSc collaborated with NGO (IGSSS) and distributed relief materials to flood affected village which is under the NSS Unit. Distribution of tarpaulin sheets among 30 (thirty) families of BhogmanHilikhaguri area in Lakhimpur was done by the volunteers on August 18, 2020. RashtriyaPoshanMaah: 2 (two) Programme Officers and 20 (twenty) NSS volunteers from 8 (eight) NSS units of Assam Agricultural University participated in the webinar on “Role of Youth in Tackling Malnutrition” on the occasion of <i>RashtriyaPoshanMaah</i> on 16th September, 2020 NSS Day Foundation Day of National Service Scheme was observed by NSS volunteers at Assam Agricultural University, Jorhat on September 24, 2020. NSS Day was celebrated with active participation of NSS
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		volunteers under the theme SwachhtaAbhiyaan and Community Awareness Programme held at Barbheta, Jorhat. A cleanliness programme and tree plantation programme was conducted in the Charaibahi Panchayat of Jorhat. In the evening, an Inter College Prize Money Science Web Quiz was organized by the Assam Soil Conservation Society of India, in collaboration with the National Service Scheme (NSS) Cell, AAU on September 24, 2020 which was also the Foundation Day of Soil Conservation Society of India. Ms Kareena Saikia, College of Horticulture bagged the first Prize, Biprajit Datta Choudhury, College of Agriculture bagged the second prize and Hassanul Bhutan, SCSCA, Dhubri, bagged the third Prize in the competition. Anti Rabies Programme: An anti-Rabies Programme along with feeding of stray dogs was carried out by NSS volunteers of Lakhimpur College of Veterinary Science in collaboration with 'Xohari', a local student group of Lakhimpur.
NCC		The Assam Agricultural University has finalized all documents for Raising of New Air NCC troupe at Assam Agricultural University, Jorhat from the current year. Already 50 students have been enrolled as NCC cadets from the current year. 150 cadets have been allotted at AAU, Jorhat from this year. Dr Pranjit Sutradhar, Assistant Professor, Department of Agronomy, has been nominated for the post of CTO to act as local head of the AAU NCC Unit.
OTHERS		Assam Agricultural University has entered into a Memorandum of Association with the Assam Cricket Association (under BCCI) to allow interested students to participate in cricket matches in a better and suitable environment.

Award/ Medals received

- Sri Sarat Sekhar Bora, a final year student of MSc. (Agri) was selected as the student of the year in the annual conference of AIASA in 2017-18.
- The students of the University participated in various debating and quiz completions at National & State level and brought laurels to the university a few of which are:
- Students of the College of Agriculture bagged the best team award in **43rd Naren Sarmah Memorial All Assam Inter-College/University Debate Competition held at D.K.D. College, Dergaon on September 20, 2017**
- **The Best Rebuttal Award was bagged by Arunav Khound, 3rd year student of College of Agriculture in the YUVA National Debate Competition held at G.B. Pant University of Agriculture and Technology, Uttar Pradesh on 15th January, 2018**
- Ms Bhanita Baruah bagged the **2nd Best Debater award in the Cotton Fest held at Cotton College, Guwahati on 9th April, 2017**

Awards won in All India Sports & Youth Festival 2016-17 to 2019-20

AGRI-UNIFEST 2016-17	Spot Painting	First	Rajasthan University of Vety. & Animal Sciences(RAJUVAS), Bikaner February 22-25, 2017
	Poster Making	Second	
	Cultural Procession	Third	
	Light Vocal	Fourth	
AGRI-UNIFEST 2017-18	Best disciplined team		Sri Venkateswara Veterinary University, Tirupati, AP during February 12-16, 2018
AGRIUNISPORTS 2017-18	Long Jump	Third	UAS, Bangalore during January 30–February 3, 2018
AGRI-UNIFEST 2018-19	Light Vocal	First	SardarkrushinagarDantiwada Agricultural University, Sardarkrushinagar February 3-7, 2019
	Cultural Procession	Second	
	Clay Modeling	Third	
	Group Dance	Third	
AGRI-UNIFEST 2019-20	One Act Play	Fourth	IGKV, Raipur during February 8-12, 2020
AGRIUNISPORTS 2019-20	Badminton (Boys)	First	Sri Venkateswara Veterinary University during March 1 - 5, 2020.
	Badminton (Girls)	Second	

Regular practice of Sports and Games by the students

Sport facilities are available and the students regularly practice Football, Volleyball, Cricket, Basketball, Table Tennis Badminton and Swimming and Gymnasium. The College has playgrounds for football and cricket. It has basketball and volley ball courts with lighting facilities, swimming pool and a well equipped gymnasium hall.

Sports Meets

- Every year Annual College Meets are organized by all colleges where competitions are held under Major Games, Minor Games, Music and Culture, Debate, Drama, and Fine Arts & Literature section.
- Every year Inter College Meets are held at AAU, Jorhat or AAU, Khanapara campuses where the College teams vie for top honours. The Assam Agricultural University teams for AgriUnifest and AgriUniSports are selected in these IC Meets.
- Even with very limited facilities in the past, the students were taking part in various games and sports, music and culture, drama, debating and fine arts. AAU students had the distinction of representing the East Zone, State and District level teams in various games and sports. Students from the University earned laurels in many zonal and national level meets and events.

6.6.6.3 Health Facilities

Provide the brief information about medical facilities available in the head quarter and off-campus. A brief about Health Insurance Scheme being implemented at the University may be provided

There is provision for medical care and health service in each of the Colleges/ Campuses of the University.

A Health Centre of 777.50 sq. m area caters to the medical need of students, teachers, officers and staff of Jorhat Campus. The Unit is headed by the Chief Medical Officer who is supported by para medical staff. The OPD also provides services to other non-employees on payment of nominal fees. The Unit has the facilities for carrying out some tests like Blood R/E. Stool R/E, Urine R/E, ABO & Rh grouping, Blood Sugar Test, Urine Pregnancy test, Stool occult blood, Malaria parasite test etc. The centre has the facilities for routine pathological examination of urine and blood. A pharmacy stocks life saving drugs as well as other essential medicines for the students. The Ambulance service of the centre is available 24 hours round the clock. The Unit has the provision of 24 hours emergency service. The Unit is also equipped with ambulance service.

Biswanath College of Agriculture has a part time Medical Officer to help the students and employees of BNCA under medical emergency. The college has a Medical Room with required facilities, viz., Beds along with some common medical equipments like Sphygmomanometer, Thermometer, Oxymeter, First- Aid Box, Weighing machine, small tools essentials to serve the initial treatment for patients and to treat during minor injury/ accidents, etc. The college has an Ambulance fitted with stracer, oxygen cylinder, etc to carry the patients safely to the hospitals under emergency situation. In each hostel there is provision of regular supply of some common medicines, disinfectants as per recommendation of the Medical Officer and under the guidance of Deputy Director of Students' Welfare and Wardens. Regular arrangements are made for maintenance of day to day hygiene in the kitchen, rooms and surrounding of the hostels by proper cleaning and spraying of disinfectants during the time of need. The part time Medical Officer conduct health check-up of the students at regular time intervals.

There is no permanent medical set up at SCS College of Agriculture, Dhubri campus. However Ambulance facility is there in the campus to transfer the patient to nearest hospital at immediate notice as and when necessary. Also the Primary Health Centre is within 500m distance from the campus gate.

AAU, Khanapara campus has a medical unit with 2 permanent Doctors and 1 contractual Nurse. The unit provides medical assistance at OPD service to the students, faculties as well as all other employees as and when required. Ambulance service is to be added shortly.

The College of Fisheries, AAU, Raha has a small medical unit with minimum basic facilities. The Medical Officer of the Railway dept., Chaparmukh Junction, Nagaon, is being inducted as a part time medical officer who visits the Campus thrice in a week and also attends to the emergency call of

students and resident staff of the College on demand. The unit is manned by a dresser who looks after and maintains the records. Moreover, there is a dedicated ambulance for 24x7 hour service.

University has Health Insurance Scheme for the students

Since 2015-16 academic year, Group Health Insurance Policy for all the students of the University has been introduced. However, the said Medical Insurance Scheme for the students was discontinued from the first semester of 2016 and in place, a new scheme called Students Medical Assistant Scheme was introduced. A student can avail the medical assistance benefit maximum two times in an academic session subject to the total maximum amount of Rs. 10000/ (Rupees ten thousand only). To avail the benefit under this scheme, the students have to apply to the committee along with the following documents within 15 days of discharge from the hospital. (1) Prescribed application form duly filled up and forwarded by the warden in case of hostellers/local guardian in case of day scholars, (2) Discharge certificate photocopy.

6.6.6.4 Sports and Cultural Facilities

Give detailed report of sports and games facilities and auditoriums available for cultural events.

The Directorate of Students' Welfare provides facilities for games and sports, study circle, music, drama etc. to enrich the cultural, literary, physical as well as social life of the students. The University has its own playground, well equipped indoor stadium, swimming pool and gymnasium. The University teams are provided adequate support for participation in local, regional and national sports events and games. The Student's Society /Union of each College publish a magazine to encourage creativity of the students.

Sports and games facilities

There are sprawling playgrounds in all campuses for outdoor games such as Football, Cricket and Athletics. There is one basketball court and 3 (three) volleyball courts with night playing facilities in the Jorhat campus. The facilities for sports, games, and cultural and literary activities available in the Jorhat Campus are common for students of both Agriculture and Community Science Faculties. A well lighted and well-equipped indoor stadium for playing Badminton , Table-tennis, Carrom, Chess etc. are available within the college campus for the students. For outdoor games, there are three volley ball grounds with night playing facilities, one basket ball court and one football ground are available in the campus. For athletics there is one play ground with space for 400 m athletics track. A multi gymnasium hall of national standard and one well equipped 15m X 25m Swimming Pool with adequate washrooms and very good filtration unit are available for the use of students as well as teachers of Jorhat campus.

The other campuses also have volleyball courts for both boys and girls. There are indoor stadia at Jorhat, Khanapara, Biswanath Chariali, Raha campuses for badminton, table tennis and other indoor games. There are Profs-in-charge Major Games, Minor Games and Indoor Games in all Colleges of AAU. A trained badminton coach takes care of the Badminton section on a contractual basis.

Physical Training

There are facilities for Physical Training as all the campuses have large campuses where a number of students do physical exercises along with regular walking, jogging and running.

Gymnasium

The Jorhat, Khanapara, Raha and BNCA campuses of AAU have well equipped gymnasium halls. In the HQ campus, the Gymnasium is functioning under a Gymnasium Management Committee comprised of Faculty Members of AAU. There is a Prof-in charge of Gymnasium section in all Colleges. There is a qualified Gymnasium instructor who oversees the performance of the facility users.

Swimming Pool

There is a 15m X 25m swimming pool in the Jorhat campus. Swimming sessions function for 6 months during warm weather from May 1-October 31 every year. Management is looked after by an adhoc body comprised of faculty members. Swimming instructors are hired on contractual basis for 6 (six) months.

Table: Facilities available for sports and games in Jorhat campus

Item	Area (sq. m)	Utilization
Play ground	3,91,40 (3.91 ha.)	For outdoor games like football & cricket and annual track & other events
Indoor stadium	820.70	For indoor games like badminton & table tennis
Gymnasium hall with multigym	142.35	Body building & health club
Tennis court	800	Lawn tennis game
Volleyball court 3 Nos.	1459.65	Volleyball game

Facilities for Music & culture

There are well equipped Auditoriums in Jorhat, Khanapara, Biswanath Chariali, Raha campuses with all facilities for exploring the inherent talent of students. The Auditorium is under construction at Chapar campus. All Colleges under AAU nominate a Professor in Charge of the Music and Drama to manage regular student activities.

Fine Arts and Literature

A number of fine arts competitions are organized by students themselves and as a part of Inter-Hostel and Inter-class competitions during Annual College Weeks, Inter College Meets etc. All Colleges under AAU nominate a Professor in Charge of Fine Arts and Professor in Charge for Drama section, to manage regular student activities.

Debate & Symposium

A Prof-in-charge looks after regular Quiz, debating and other literary activities of students. Competitions are organized by the Deans of the respective colleges, the Assam Science Society, the NSS etc.

Auditorium for Cultural Activities

There is a well equipped centrally Air- Conditioned 1546.4 sq. m Auditorium of 750 sitting capacity for different cultural activities of the University in the Jorhat campus. This modern well equipped auditorium serves the students for all their cultural activities like Music competition, Drama & Skit competition, Quiz competition, Extempore Speech & Debating Competition as well as Annual Cultural Nites. Student's literary activities like fine arts & wall magazines are usually exhibited with the facilities provided in the Central Library and the Auditorium. The other colleges also have an auditorium each for conducting different programmes.

Some Important Infrastructure developed in recent years for Student Welfare:

1. Swimming Pool: A well equipped swimming pool has been built and functional in the Jorhat Campus since 2016. Every year swimming session function from May to October.
2. Stadium: Players pavilion, Galleries for spectators (one south facing and a renovated pavilion that is north facing) and other facilities have been built in the playground of the Jorhat campus.
3. Indoor stadium: A new indoor stadium with modern amenities has been built in the CVSc, Khanapara and BNCA. The indoor stadium in Jorhat campus has been improved considerably. There are 2(two) synthetic Badminton courts and 2(two) new Table Tennis Boards in the Indoor Stadium, AAU Jorhat campus.
4. Gymnasium: A new Gymnasium has been built in CVSc, Khanapara, and the old Gymnasium of AAU Jorhat has been renovated and extended. The other Colleges also have gymnasium facilities for the students and employees of AAU.

6.6.6.5 Student Counseling and Placement Cell

Give detailed report on placement cell and provide the report for recruitment of students by firm in last five years. What is the mode and mechanism of counseling being followed at the University level?

Mechanism of students' counseling being followed at the University level

After admission in Under Graduate Degree programme at College of Agriculture, Jorhat, Assam Agricultural University, a group of ten (10) 1st year students are placed under a teacher, who acts as a counselor. The counselor helps the students in all front of life. He maintains a personal record in respect of academic progress, deficiencies in studies as well as co-curricular and extracurricular activities of each student and helps the students to overcome the problems related to the academic as well as personal matters including contact with parents of the students. The process of counseling continues throughout the UG and the PG programmes.

The University has a "Training and Placement Cell" at Jorhat campus for student counseling and placement. This Cell also regularly provides counselling for higher education and placement including orientation of students through various soft skill tools. All the faculties also organize training programmes for the students appearing in different competitive examination like ICAR/JRF/ Assam Civil Service etc. The Cell also organizes campus interviews for recruitment in various Private and Corporate Sector Companies.

At Biswanath College of Agriculture, each student is assigned to a counselor selected from the teachers by the Deputy Director of Students' Welfare in consultation with the Dean at the time of admission of the student. The counselor maintains a personal record in respect of each student's academic progress, deficiencies in studies as well as co-curricular and extracurricular activities.

At SCS College of Agriculture, Dhubri, immediately after admission a group of four (4) students are placed under a teacher, who acts as their adviser. Adviser helps the students to overcome the problems related to the academic as well as personal matters. The process of counseling continues throughout the Ug degree programme.

Under faculty of Veterinary Science, at the beginning of academic session a group of 2 -5 First year students of Lakhimpur College of Veterinary Science are placed under a teacher-counselor for the entire degree programme. The counselor advice the students in academic, financial as well as their personal problems. The Students Counseling Committee under the chairmanship of Associate Dean convenes meeting at least twice in a semester to review and to sort out the problems of the students.

Similarly in the College of Fisheries also Student Counseling Committee is functioning with Dean of the college as Chairman and Deputy Director of Students Welfare(DDSW) of

college as Member Secretary. The DDSW in consultation with the Dean prepare the list of student counselors and a group of 5-10 students are placed under each counselor for the entire degree programme.

At college of Community Science, the Director of Student's Welfare in consultation with the Dean, prepares the list of student counselors and a group of 5-10 students are placed under each counselor for counseling purpose both in academic and non-academic matters.

Training & Placement Cell, AAU, Jorhat

The Training & Placement Cell, under the Directorate of Students' Welfare, is an essential component of Assam Agricultural University, Jorhat catering to the needs of its students for their career development. It was set up in 1998. The cell organizes training programmes on Personality Development, Communication Skills, Leadership and such other areas. The cell facilitates Campus interviews and placement in various government and Non-Governmental Organizations. It has complete infrastructural facilities (fully air-conditioned group discussion room, interview room, office, waiting hall etc.) for conducting campus interviews, computers with net connectivity for job search and resume posting by the students and own website for job information, resume posting and other related helps. Large number of the graduate and post graduate students of this university have been placed in different organizations involved in Research and Development, Business, Banking areas in Agriculture, Veterinary Science, Fishery Science and Community science. The major activities of the cell are listed below.

1. Lecture on "HR Management in Agricultural Sector (delivered by Dr. M.B. Chetty, ADG (HRD), ICAR, New Delhi) was organized on 2nd May, 2016
2. Personality Development Programme by SMART SERIES, Bangalore on 10th & 11th May, 2016
3. NAAS Lecture by Dr. B.P. Bhatt on 2nd September, 2016
4. Lecture by Dr. J.N. Goswami on career development on 13th September, 2016
5. IBPS coaching from 7th to 26th September, 2016
6. A coaching camp for the students was organized from 6th to 17th June, 2017 to prepare the students for APSC preliminary examination.
7. A workshop on "Life skills: key to future success" was organized on 30th August, 2017.
8. A coaching camp was organized for the students from 19th February to 9th March, 2018 to prepare them for ARS/NET
9. A programme on entrepreneurship Development : IDEATION 2018 was organized on 13th March, 2018 in collaboration with NRL.
10. A JRF coaching camp was organized in the month of March, 2018.
11. A Personality Development Programme was organized from 5th to 11th October, 2018

At Faculty of Veterinary Science, the Training and Placement cell runs in the college under a senior faculty as the In-charge. Different job oriented training programmes are organized

to update the knowledge and getting employment by the passed out students. In addition, advertisements for jobs in different institutions/ organizations are communicated to students by the placement cell.

At faculty of Fisheries, one of the faculty is entrusted the responsibility of placement cell. The cell helps providing the passed out students in their placement as well as showing avenues for self employment.

For the students of Faculty of Community Science, the Training and Placement Cell operative in AAU, Jorhat campus takes care of placement and career development trainings of the graduates and post-graduates.

Student's Placement

Year	Placement
2016-17	• Fifteen (15) students from Faculty of Agriculture were engaged in Private sector
2017-18	• Nine (9) students were recruited by Nationalized Banks as Agricultural Field Officers • One (1) student were appointed as Junior Consultant in MIDH, Central government • Twenty two(22) students were appointed as Vocational Teacher in Govt. Schools • One (1) student was recruited by 'In Nature Bio Foods' • One student (1) was recruited as OSD to the Director in Inland Water Transport
2018-19	• Thirty six (36) students were recruited as SMS by State Agricultural University • Five (5) students were recruited in APART project • One (1) student was appointed as Agricultural Technical Manger (ATM) in ATMA • One (1) student was appointed as Agricultural Technical Manger (BTM) in ATMA • One (1) student was appointed as Vocational Teacher at Govt. Secondary School • Five (5) students were recruited by Central Bank of India and Canara Bank • Three (3) students were recruited in IFFCO call centre
2019-20	• One hundred fifteen (115) students were recruited by Assam State Government under the department of Agriculture • Ms. Jharna Choudhury was appointed as Young ProfessionalL-II, Biotech Kisan Hub Project (2019-20) • Mr. Tehzib Choudhury was recruited as Subject Matter Spacialistfor Society for the Upliftment of Villages & Development of Himalayan Areas (SUVIDHA) (2019-20)

	• Ms. Nilakshi Sarma was appointed as Young Professional –II at RRLRRS, Gerua, Assam • Ms. Priyanka Bora was recruited as Vocational Trainer (Agriculture) at Institute of Integrated Resource Management, North Lakhimpur, Assam (2019-20) • Mr. Julfique Rahman was recruited as Territory Business Manager, Bayer Crop Science, India (2019-20) • Mr. Nabajit Barman was recruited as Young Professional-II at KVK, Baksa (2019-20) • Mr. Nishant Choudhury appointed as Executive (Agri Business), Garware Technical Fibres Ltd., Shimla (2019-20)
2020-21	• Jiljily Thaosen qualified for ACS, Rank-116 • Murchana Malakar qualified ACs, Rank -119 • Chandan Kalita got ALRS, Rank-24 • Nataliya Natasha Handique got ALRS, Rank-54 • Leedarin Terongpi got appointment as Superintendent of Taxes, Rank-10 • Gouri Shankar Bordoloi got appointment as Inspector of Excise, Rank-3 • Ms. Pithunglo Kikon was recruited as District Manager, United Agriculture Development Corporation, Dimapur, Nagaland (2020-21) • Ms Konyak Tumei recruited as District Manager, United Agriculture Development Corporation, Mon, Nagaland (2020-21) • Mr. Vishal Kahandal was appointed as Business Supply Chain Facilitator, Drishtee Foundation (2020-21) • Ms. Debasish Kalita was appointed as Vocational Trainer (agri) at Kharmuja Higher Secondary School (2020-21)

6.6.6.6 Disabled Friendly Facilities

All the approaches to academic buildings, classrooms and hostels in different college campuses are facilitated with ramp with only 1-2 steps which is suitable for differently able persons. Not only would a ramp create better mobility, but promote more independence by allowing everyone equal ease of access to the interior space. Ramp facility is provided in the all buildings, departments and other office building including main administrative building for easy movement with wheel chair.

6.6.7.1. Physical facilities including administrative building and lands:

Give comprehensive report on the administrative buildings, academic blocs, Colleges research units instructional farms, seed production units etc. for each College and University Head Quarter.

Assam Agricultural University can boast of having one of the best infrastructure and other physical facilities available in State Agricultural Universities in the country. All these infrastructure and physical facilities were created and further upgraded time to time with the financial assistance received from World Bank, ICAR, Govt. of Assam, NEC, DBT and others.

Lands

Assam Agricultural University has different campuses/ stations spreading all over the state with its Head Quarter located at Jorhat. AAU head quarter located at Jorhat is a sprawling campus spreading over an area of 224.37 hectares, out of which 104.29 hectares are under farms and 120.08 hectares are under institutional area. The institutional area and farm land of various campuses/ stations of AAU are given in Table....

Table: Institutional area and farm land of AAU

Campuses/ Stations	Institutional land (Ha)	Farm land (Ha)	Total land (Ha)
Jorhat campus (HQ)	120.08	104.29	224.37
CVScKhanapara campus	73.69	13.30	86.99
BNCA campus	32.63	141.37	174.00
CFSc , Raha campus	2.50	89.35	91.85
SCS College of Agriculture, Dhubri			75.00
LCVSc, Lahimpur	24.93	107.00	131.93
RARS, Titabor	11.44	39.15	50.59
RARS, Diphu	4.43	2.37	6.80
RARS Shillongani	11.83	29.83	41.66
RARS Gossigaon	20.00	93.00	113.00
RARS, Karimganj including KVK , Karimganj	7.61	24.02	31.63
RARS, North Lakhimpur	18.86	8.27	27.13
HRS, Kahikuchi	12.84	29.66	42.50
CRS, Tinsukia	27.33	8.75	36.08
SRS, Buralikson	9.79	41.62	51.41
GRS, Burnihut	9.81	8.00	17.81
LRS, Mandira	0.50	10.16	902.66*
KVK, Sonitpur	4.50	15.50	20.00
KVK, Golaghat	1.50	10.76	12.26
KVK, Cachar	32.00	18.00	50.00
KVK, Kokrajhar	1.50	7.50	9.00
KVK, Sivsagar	5.00	8.73	13.73
KVK, Nalbari	3.50	6.50	10.00

KVK, Barpeta	1.00	9.00	10.00
KVK, Chirang	2.00	10.00	12.00
KVK, Dhemaji	1.00	28.45	29.45
KVK, Dibrugarh	1.50	14.50	16.00
KVK, Jorhat	1.50	10.50	12.00
KVK, Baksa	3.50	14.17	17.67
KVK, Bongaigaon	2.50	8.20	10.70
KVK, Darrang	1.50	9.21	10.71
KVK, Dhubri	2.33	11.00	13.33
KVK, Kamrup	4.00	6.00	10.00
KVK, Morigaon	2.43	13.00	15.43
KVK, Udalguri	2.00	24.77	26.77
KVK, KarbiAnglong	1.71	3.79	5.50
KVK, Lakhimpur	2.00	8.00	10.00
KVK, Nagaon	1.00	9.00	10.00
KVK, Tinsukia	0.75	9.25	10.00

*Out of 902.66 ha under LRS, Mandira, 892.00 ha is swamps.

Administrative Building

University Head Quarter, Jorhat

The AAU's main administrative building is located at the Jorhat campus. Besides, the College of Agriculture, Jorhat, College of Community Science, Jorhat, Directorate of Research (Agri), Directorate of Extension Education, Directorate of Post Graduate Studies, Directorate of Students Welfare, Directorate of Physical Plant, DBT-AAU, Central Library etc. are all located in the Headquarter Campus of AAU.

The administrative building houses the offices of Vice-Chancellor, Registrar and Comptroller besides a conference room. The office & establishment of Dean, Faculty of Agriculture is located in a 1272 sq.m. building. The office and establishment of Director of Extension Education are located in the 1944 sq.m, EEI building which also houses the Extension Education Institute and the departments of Extension Education. The office of the Directorate of Students' Welfare is located in the auditorium building and the Chief Librarian's and establishment are located in the 2445 sq. m Central Library Building.

Table: Administrative building with floor space at Jorhat campus

Administrative building	Floor space (sq. m)
Main administrative building (VC, Registrar & Comptroller	2045
Dean, Faculty of Agriculture	1272
Director of Research (Agri)	848
Director of Extension Education	940
Dean, Community Science	4734
Director of Physical Plant	996
Director of P.G. Studies	424

Director of Student's Welfare	837
Chief Librarian	214
Senior Estate Officer	714
Sr. Medical Officer	721
DBT, Jorhat Centre	6151

CVScKhanapara, Guwahati campus

The offices and establishments of the Dean, College of Veterinary Science, Khanapara and Director of PG Studies, Khanapara office are located in the old Administrative building. The new Administrative building in the Khanapara campus houses the offices and establishments of Director of Research (Vety), Associate Director of Extension Education, Deputy Registrar and Deputy Comptroller besides the camp offices of Vice Chancellor, Registrar and Comptroller. The details of administrative building and plinth area are given in Table.

Table : Administrative offices and plinth area at CVSc, Khanapara campus

Particulars	Plinth area (sq. m)
Administrative offices	
A. Old Administrative building	1159.95
Office of the Dean, F.V.Sc.	
a) Deans Chamber	99.51
b) Academic cell	246.65
c) Office (Accounts)	31.83
d) Office (General)	58.32
e) *Computer center (ARIS Cell)	58.86
f) DPGS Office	128.77
g) Conference room	73.20

New Administrative Building:

B. New Administrative building	1100.00
a) Office of the Vice-Chancellor	202.52
b) Office of the Registrar, AAU, Khanapara	351.48
c) Office of the Comptroller, Khanapara	270.00
d) Directorate of Research (Vety)	396.31
e) Directorate of Extension Education (Vety)	423.09

SCS College of Agriculture, Dhubri

The plinth area of the Administrative Building of SCS College of Agriculture, Dhubri is 614.83 sq. m. The building houses Chamber of Associate Dean (64 sq. m.), Conference Room (96 sq.m.) and other room's viz., the Academic Cell, Strong Room, Accounts Room and Office Rooms.

The administrative buildings/ blocks including floor space in the other outstations/ campuses of AAU are presented in Table

Table: Floor space of Administrative buildings of outstation campuses

Campuses/ Stations	Floor space (sq. m)
BNCA campus	3844.00
CFS _c , Raha campus	772.00
LCVSc, Lahimpur	735.35
RARS, Titabor	521.85
RARS, Diphu	541.13
RARS Shillongani	825.00
RARS Gossigaon	459.05
RARS, Karimganj	526.50
RARS, North Lakhimpur	698.00
HRS, Kahikuchi	545.62
CRS, Tinsukia	333.00
SRS, Buralikson	495.80
GRS, Burnihat	99.12
LRS, Mandira	172.86
KVK, Sonitpur	388.00
KVK, Golaghat	550.00
KVK, Cachar	320.00
KVK, Kokrajhar	554.00
KVK, Sivsagar	592.00
KVK, Nalbari	550.00
KVK, Barpeta	700.93
KVK, Chirang	550.00
KVK, Dibrugarh	550.00
KVK, Jorhat	550.00
KVK, Bongaigaon	158.00
KVK, Darrang	420.56
KVK, Kamrup	554.00
KVK, Morigaon	554.00
KVK, Udalguri	82.61
KVK, KarbiAnglong	26.91
KVK, Lakhimpur	592.00

KVK, Nagaon	420.00
KVK, Tinsukia	592.00
KVK Karimganj	554.00

Academic block, Class room and Laboratories

College of Agriculture, Jorhat

The College of Agriculture has 18 departments which are housed in 8 buildings viz., 1) Old Dean, F.A. Building, 2) Basic Science Building, 3) Agronomy and Soil Science Building, 4) Horticulture and Plant Breeding & Genetics Building, 5) Agricultural Engineering Building, 6) Tea Husbandry and Technology Building, 7) Agricultural Statistics & Agro Meteorology Building, 8) EEI Building, and 9) DBT, AAU Centre.

The undergraduate classes are held centrally in Academic complex where 9 numbers of class rooms are available with a total floor area of 650 sq. m. A seminar hall is also located in this building with an area of 216 sq. m. Apart from this, there are class rooms in each department. The details of Class room under College of Agriculture is given below:

Collage/Location	Type of Class Room	No. of class rooms	Total floor space (sq.m)	Capacity of each class room
College of Agriculture, Jorhat	General	12	1000.00 (approx.)	50 to 100
	Departmental	29	1771.00	18 to 75
	Field	4	259.04	30 to 35

There are altogether 75 laboratories located in 16 departments of College of Agriculture along with DBT centre Jorhat. The distribution of these laboratories and available floor space are indicated in Table given below:

Table. Laboratories under College of Agriculture, Jorhat		
Department	No. of labs.	Floor space (sq. m)
Nematology	3	204
Soil Science	7	447
Animal Husbandry	1	60
Agricultural Engineering	4	572
Horticulture	6	732
Tea Husbandry & Technology	2	108
Sericulture	3	122
Crop Physiology	4	273
Agril. Biotechnology	4	280
Agronomy	2	169
Plant Pathology	5	379
Entomology	7	465
Plant Breeding & Genetics	5	344
Bio Chemistry & Agril. Chemistry	6	494
Agro-Meteorology	1	54
Agril. Statistics	1	48
DBT, Jorhat Centre	14	1187

College of Community Science

The College of Community Science, Jorhat has five departments viz., ECM, FRMCS, FSN, HDFS and TAD. All the departments are located in newly constructed Community Science College building. The department wise availability of classroom, laboratory, seminar room, training hall etc are as follows.

Department	Class room	Laboratory	Seminar room	Training Hall	Computer Lab	Library
ECM	3	3	1	1	1	-
Family Resource Management	2	5	1		1	1
Food Science & Nutrition	1	12	1	-	-	1
Human Development & Family Studies	2	5	1	-	-	1
Textile & Apparel Designing	-	6	1	-	1	-

In addition to the above laboratories of College of Agriculture and College of Community Science, there are some other laboratories belonging to research schemes/ projects in the Jorhat campus of the university.

Table: Laboratories under Projects/ Schemes in Jorhat campus

Project/ Scheme	No. of laboratory	Floor space (sq. m)
Water Management	2	94
Forage	1	54
Cropping System	1	54
Mushroom Production	1	105
Soil Microbiology	1	145
NSP	5	266.27
Fishery Research	2	81.31
Renewable Energy	1	90
PHT	1	89

SCS College of Agriculture, Dhubri

The SCS College of Agriculture has 16 departments which are presently housed in one building *viz.* Academic Block. The area of the Academic campus is 24.0 ha. At present there are two academic blocks and each block comprises of two storied building with a plinth area of 1723.07 sq. m. in each floor. The academic block has the provision for laboratory, sitting arrangement for teachers and staff, and departmental office. The classroom complex measuring of total plinth area of 635.78 sq.m. encompasses three numbers of smart classrooms, one examination hall, a room measuring of 81 sq. m. for Gymnasium and two rooms measuring 15.36 sq. m. each as teacher lounge. There are eight laboratories measuring 72 sq. m. each in the building.

College of Veterinary Science, Khanapara

The College at present has 18 departments, each headed by a Head of the Department and a host of teachers under him. There are altogether 13 classrooms at CVSc, Khanapara of which 3 numbers have been developed as smart classroom. The details of classrooms along with floor space are given in Table

Table: Classrooms with plinth area

Class rooms	No.	Plinth area (M²)
No. 1	1	137.08
No. 2	1	200.56
No. 3	1	246.96
No. 4	1	244.00
No. 5	1	115.29
No. 6.	1	104.40
No. 7	1	115.29
No. 8	1	115.29
No. 9	1	96.48
No.10	1	96.48
Smart Class Room-1	1	139.35
Smart Class Room-2	1	139.35
Smart Class Room-3	1	104.40
Total	13	1,803.15

There are altogether 79 laboratories in CVSc, Khanapara for UG and PG students as well as for faculty research. The department wise laboratories with the available floor space are presented in Table

Table: Laboratories under College of Veterinary Science, Khanapara

Department	No. of Laboratory	Floor space (sq m)
Pathology	7	239.7
Anatomy & Histology	8	432.3
Physiology & Biochemistry	7	473.9
Extension Education	3	149.4
Poultry Science	3	213.7
Parasitology	5	288.8
Microbiology	15	321.6
Animal Production & Management	5	299.5
Pharmacology & Toxicology	3	224.0
Animal Genetics & Breeding	4	159.0
Surgery & Radiology	4	343.8
Animal Nutrition	5	191.7
Medicine, Public Health & Hygiene	6	336.0
Animal Reproduction, Gynecology, Obstetrics	4	306.4

The College has a Directorate of Clinics, headed by a Director. It has a full-fledged Veterinary Hospital. In addition to the above listed laboratories, the students receive hands-on training in the treatment of sick animals in the veterinary Clinic.

Lakhimpur College of Veterinary Science

Lakhimpur College of Veterinary Science (LCVSc), situated at Joyhing of North Lakhimpur, has 5 numbers of classrooms and 48 numbers of Functional Laboratories. The College has a Teaching Veterinary Clinical Complex (TVCC). Besides providing yeoman services to the farmers by way of treating their animals, the TVCC of the institute provides hands on practical training to the students on clinical subjects. The College Library is situated in Administrative building of the college.

Table: List of laboratories

Department	Laboratory	Floor space (sq ft.)
VETERINARY ANATOMY	Osteology and Arthrology lab	600
	Dissection hall with attached embalming room	1200
	Histology & Embryology lab	600
	Museum	600
VETERINARY PHYSIOLOGY and BIOCHEMISTRY	Physiology lab	600
	Biochemistry lab	600
	Analytic equipment maintenance lab	600

LIVESTOCK PRODUCTION MANAGEMENT	Judging pavilion-cum-Handling room (amphitheatre type)	1200600
	U.G. Lab.-cum-Museum for breed charts, animal house models	600
VETERINARY MICROBIOLOGY	Bacteriology and Mycology lab	600
	Virology lab.(with air conditioned tissue culture lab., and egg inoculation booth)	200
	Veterinary Immunology lab	600
	Glassware washing and Sterilisation room	150
VETERINARY PATHOLOGY	Histopathology lab	600
	Clinical Pathology lab.	600
	iii. Museum	900
	iv. Post-mortem room for large animals and poultry	600
ANIMAL GENETICS AND BREEDING	Computer lab. (Central facility)	1200
	U.G. Lab	600
ANIMAL NUTRITION	Feed and fodder analysis laboratory	600
	Energy metabolism lab	600
	Metabolic stall or boxes	
	Feed processing and Mixing plant	900
PHARMACOLOGY & TOXICOLOGY	Experimental Pharmacology Lab.	600
	Pharmacy lab	600
	Toxicology and Chemotherapy Lab	600
VETERINARY PUBLIC HEALTH & EPIDEMIOLOGY	Zoonoses- cum- Epidemiology lab	600
	Milk Hygiene Lab	600
	Meat Hygiene Lab	600
VETERINARY PARASITOLOGY	Helminthology Lab cum Museum	600
	Entomology & Protozoology lab	
LIVESTOCK PRODUCT TECHNOLOGY	Meat technology lab	
	Dairy technology lab.	
	Mini slaughter house for 5 to 10 animals (sheep/goat) and 50 Poultry.	
ANIMAL HUSBANDRY EXTENSION	Audio-visual technology lab	600
	Photography-cum-graphic unit, projection unit etc	600
	Group discussion chambers or mini seminar room	600
	Museum-cum-live-stock advisory unit	600
	Conference room	
VETERINARY SURGERY & RADIOLOGY	X-Ray and Imaging Facilities	900
	Small animal operation theatre	600
	Large animal operation theatre	600

VETERINARY MEDICINE	Clinical Medicine Lab	600
	Preventive Medicine lab	600
VETERINARY GYNAECOLOGY & OBSTETRICS	U.G. Lab	600
	Phantom hall and palpation room	600
	Artificial Insemination Centre with semen storage and trevisfacility	
	Museum	600

BNCA, Biswanath Chariali

The number of classroom in BNCA is 11 with a total floor space of 514.00 sq m. There are altogether 21 laboratories distributed in various departments.

Table: Laboratories under BNCA

Department	No. of Laboratory	Floor Space (sq m)
Agronomy	1	38.44
Molecular	1	35.96
Ug Agronomy & Pathology	1	92.38
Physiology	1	39.06
Tissue Culture	1	53.10
UG PBG & Nematology	1	92.38
Horticulture	1	19.52
Microbiology/ Chemistry	1	18.30
Microbiology/ Biochemistry	1	18.30
Engymology	1	18.30
UG	1	77.49
Micribiology	1	35.48
Entomology	1	37.21
Instrumentation	1	38.44
Digestion	1	21.70
Sample Preparation	1	17.36
UG Soil/ Entomology	1	92.32
Central Instrumentation	1	180.00
Crop Management	1	73.81
Crop Improvement	1	92.11
Natural Research Management	1	125.71

CFSc, Raha

There are 5 numbers of classroom in CFSc, Raha with a total floor space of 384.00 sq m. There are two laboratories of total floor space of 118 sq m. Further the existing nursery/ stocking ponds as well as the circular breeding/ hatching ponds are also used for practical demonstration to the students.

In addition to the classrooms of the teaching faculties, there are numbers of training halls located in various campuses of AAU, which are being used as classrooms for trainees. Similarly, there are numbers of laboratories located in various outstations of the university. The training halls and laboratories located in various campuses are given in Table... & Table....

Table: Training Halls located in various outstations of AAU

Campus/ Station	No. of Halls	Floor Space (sq m)	Sitting capacity
Jorhat	3	414	120
CVSc, Khanapara	1	63.75	50
RARS, North Lakhimpur	1	41.28	40
RARS, Titabor	1	85.04	60
RARS, Shilongoni	1	57.00	40
RARS, Diphu	1	58.30	40
RARS, Gossaigaon	1	115.44	60
RARS, Karimganj	1	171.00	50
SRS, Buralickson	1	141.09	30
HRS, Kahikuchi	1	135.20	80
CRS, Tinsukia	1	54.00	40
KVK, Cachar	1	348.68	250
KVK, Golaghat	1	180.00	80
KVK, Sonitpur	1	33.86	25
KVK, Barpeta	1	41.82	30
KVK, Dibrugarh	1	41.82	30
KVK, Jorhat	1	41.82	30
KVK, Kamrup	1	52.32	40
KVK, Karmganj	1	52.32	40
KVK, Kokrajhar	1	52.32	40
KVK, Lakhimpur	1	52.32	40
KVK, Nalbari	1	41.82	30
KVK, Sivsagar	1	52.32	40
KVK, Tinsukia	1	52.32	40
KVK, Nagaon	1	52.32	40

Table: Laboratories located in various outstations of AAU

Station	Discipline	No.	Floor Space (sq m)
RARS, Karimganj	Agronomy	1	33.35
	Soil Science	1	41.35
	Plant Pathology	1	33.35
RARS, Gossaigaon	Agronomy	1	37.82
	Plant Pathology	2	114.85
	Entomology	1	46.63
	Soil Science	1	51.25
RARS, North Lakhimpur	Agronomy	1	54.50
	Plant Pathology	1	23.65
	Plant Breeding	1	54.30
	Soil Science	1	45.44
	Entomology	1	42.74
RARS, Titabor	Agronomy	1	42.70
	Plant Pathology	1	85.40
	Plant Breeding	1	42.70
	Soil Science	1	42.70
	Entomology	1	44.76
RARS, Shillongoni	Agronomy	1	44.00
	Plant Pathology	1	50.00
	Soil Science	2	107.00
	Plant Breeding	1	57.00
RARS, Diphu	Agronomy	1	45.00
	Soil Science	1	68.87
	Plant Pathology	1	45.37
	Plant Breeding	1	45.67
	Entomology	1	23.00
HRS, Kahikuchi	Horticulture	1	35.401
	Soil Science	1	53.40
	Plant Pathology	1	44.40
SRS, Buralikson	Multi Disciplinary	2	52.80
LRS, Mondira	Multi Disciplinary	2	207.00

Research Units, Instructional Farms and Seed Production Units**College of Agriculture, Jorhat**

The College has 6 different farm units, namely; Instructional-cum-Research Farm (ICR Farm) (69.61 ha), Horticulture farm (16.57 ha), Plantation crop & Tea Garden (10.85 ha), Diary and Poultry Farm (3.8 ha) Sericulture farm (0.2ha) and Fishery farm (3.26 ha.).The total Farm area is 104.29 ha.

The College of Agriculture at Jorhat has also a Mini Tea Factory for imparting hands-on training to students specializing in tea. To facilitate Experiential Learning programme, different units namely Agro-Processing Unit (270 sq.m), Food Processing units (405 sq. m), Bio-fertilizer Production Unit (240 sq.m), Oil Distillation Plant (45.67 sq.m) and Plantation Crop Unit (156 sq.m) have been set up.

CVSc, Khanapara

The College has three Instructional Farms, viz., (a) Instructional Livestock Farm, (b) Instructional Poultry Farm, and (c) 30-Sows Teaching Unit. The details of Instructional & research farms are presented in following Tables.

Table: Instructional Farms in CVSc, Khanapara

Unit	Particulars	No.	Floor area/ pond area (sq. m)
Instructional Livestock Farm	Cattle shed	4	857.58
	Bull shed	2	78.58
Instructional Poultry Farm	Shed for chicks & growers	1	225.35
	Shed for layers	1	224.44
	Shed for broilers	2	297.89
	Shed (for PG research)	1	221.65
30 Saw Unit	Pig Sty No. 1.	1	185.25
	Pig Sty No. 2	1	185.25
	Open Store	1	-
	Feed storage room	1	-

Research Farm

Table: AICRP on Pigs, CVSc, Khanapara

Particulars	No.	Floor area (sq. m)
Pig Sty No. 1	1	353.60
Pig Sty No.2.	1	353.60
Pig Sty No.3.	1	353.60
Pig Sty No.4.	1	353.60
Pig Sty No.5.	1	112.00
Pig Sty No.6.	1	64.00
Store cum feed mill.	1	79.08
Post Mortem Shed	1	20.16

Table: AICRP on Poultry Breeding, CVSc ,Khanapara

Particulars	No.	Floor area(Sq. m)
Poultry breeding shed	2	480
Store room and vermicompost	1	-

Seed Production**Table : Seed Production Units, CVSc, Khanapara**

Unit	Particulars	No.	Floor area (sq. m)
Mega Seed Project on Pigs A	Pig Sty No. 1	1	288.20
	Pig Sty No. 2	1	288.20
	Pig Sty No. 3	1	288.20
	Pig Sty No. 4	1	429.68
	Office store	1	34.80
	Machinery		
	Platform balance	1	
	Spring balance	1	
	Double pan balance	2	
	Hard cart	1	
Mega Seed Project on Pigs B	No. 1	1	1016.40
	No. 2	1	726.00
	No. 3	1	726.00
	Feed cum office	1	300.00

In addition to the above, a duckery shed Of 49.20 sq.m, a hatchary building of 123.48 sq.m, a feed mill of 90.00sq.m is also available along with 2 fish ponds covering an area of 0.3 ha.

BNCA, Biswanath Chariali

There are 6 Instructional farm units in the BNCA campus. The farms along with area are given in Table

Table: Instructional Farms in BNCA campus

Farm	Area (Ha)
Agriculture	52.75
Horticulture	30.42
Plantation crop	8.00
Forestry	32.40
Livestock/ Poultry	4.00
Herbal	4.00

SCS College of Dhubri

A total of 75.6 ha area of the College has been earmarked for development of full-fledged Instructional-cum-Research Farm (ICR Farm), Horticultural orchard and integrated farming system. Already the livestock unit for production and student practical purpose has been developed. Students field practical are conducted in designated field within the residential campus.

CFSc, Raha

CFSc, Raha campus has an Instructional farm comprising 9 numbers of nursery and 3 numbers of stocking ponds covering an area of 1.35 ha. In addition a pig sty for 10 pigs and 6 numbers of furrowing pans for 30 piglets are also available for instructional purpose.

Research/ Demonstration Farm located in Outstations

The research/ demonstration farms located in different outstations under Assam Agricultural University are presented in Table.

Table: Research / Demonstration Farms in Outstations of AAU

Outstations	Farms	Farm Area (ha)
RARS, Gossigaon	Agronomy	27.00
	Horticulture	4.00
	Animal Husbandry	2.00
	Plantation Crops	2.00
	Farm Forestry	3.50
RARS, North Lakhimpur	Agronomy	16.27
	Fisheries	0.71
RARS, Titabor	Agronomy	39.15
RARS, Shillongoni	Agronomy	38.83
	Fisheries	1.10
RARS, Diphu	Agronomy	5.00
	Horticulture	3.40
	Fishery	0.68
	Farm Forestry	0.41
RARS, Karimganj	Agronomy	24.02
	Fisheries	0.88
HRS. Kahikuchi	Horticulture	29.66
CRS, Burnihat	Agronomy and Horticulture	5.00
	Fisheries	0.13
	Goat shed	631.98 sq.m
SRS, Buralikson	Agronomy	16.27
	Fisheries	0.71
CRS, Tinsukia	Horticulture & Farm Forestry	8.00
LRS, Mondira	Agronomy	2.70

	Fisheries	4.00
	Piggery shed	728 sq.m
	Buffalo shed	828 sq.m
	Goat shed	252 sq.m
	Poultry shed	98 sq.m
	Duck shed	53 sq.m
	Cattle shed	202 sq.m

Green House, Glass House &Poly House

The details of the green house, glass house and poly house available in the different campuses to facilitate teaching-learning under Assam Agricultural University are indicated in Table given below:

Table. Green house, glass house & poly houses in AAU

Campus/ Station	Type	No.	Area (sq. m)
Jorhat	Green House	2	57.00
	Glass House	2	78.00
	Poly House	7	500.00
BNCA	Green House	1	72.00
HRS, Kahikuchi	Green House	2	106.00
	Glass House	1	28.60
	Net House	2	149.36
	Poly House	2	58.00
CRS, Tinsukia	Glass House	1	36.12
	Net House	1	69.75
RARS, Shillongoni	Net House	1	56.00
	Poly House	1	50.00
RARS, Karimganj	Net House	1	55.64
RARS, North Lakhimpur	Net House	1	90.00
RARS, Diphu	Net House	2	183.00

6.7.7.2 IT Infrastructure

A brief report on University ARIS Cell shall be given. Give the information on LAN connectivity, Wi-Fi/internet facilities in campus and hostels; Computer based library management, videoconferencing facilities, smart class rooms and workshops etc.

ARIS Cell : Agricultural Research Information Systems (ARIS), funded by ICAR, was set up in 1995-96 in Jorhat campus as a Central facility for the entire university to provide information technology (IT) support to the various entities of the university.

LAN connectivity

ARIS Cell has interconnected all the departments in the Faculty of Agriculture, the university administrative building, the Directorates of Research, Extension Education, Students' Welfare and the College of Community Science at Jorhat and, the Faculty of Veterinary Science at Khanapara through LAN, thereby providing E-mail and internet facilities. All the Research Stations, Colleges located in different places of Assam and KVKs are also well connected with headquarters.

To start with, the ARIS Cell designed and installed a campus wide fibre optic based local area network (LAN) at the Jorhat campus and subsequently at the Khanapara campus. Initially the LAN was used basically to provide Internet connectivity to all the departments and administrative offices of the two campuses, but subsequently ARIS cell has started to provide various IT related services to the university as detailed below. The cell manages the firewall through which all users are validated and protected from malicious content. ARIS has provisioned institutional email ids on AAU's own domain (aau.ac.in) and G-suite apps have been provided to all faculty members, scientists and students of the university irrespective of their location and the same facilities are being extended to the employees on a phased manner.

Facilities provided by ARIS Cell

A. Websites:

1. University website (<http://www.aau.ac.in>)

The AAU website is hosted in Jorhat campus in its own server. The website is developed with open source technology with strict security in both front-end as well as back-end. The ARIS Cell has been maintaining and updating the website along with regular updates and backups.

2. **KVK Websites:** Each Krishi Vignan Kendras (KVK)s are mandated to maintain their websites. ARIS Cell is providing shared server space, domain name resolution services, as well as hosting platform to the KVKs for them to host their websites. Already 19 (nineteen) KVKs are utilising this facility and hosting their websites.
3. **Websites of various extramurally funded projects:** The ARIS Cell is also providing shared web hosting facilities to various extramurally funded projects which requires to maintain their independent web presence. Examples are rfcner.aau.ac.in, bbb.aau.ac.in, bioinfo.aau.ac.in etc.

B. Software & Services:

1. Online Admission System (<https://cld.aau.ac.in/admission>)

The University has developed its own online admission system, which handles the admission process right from filling up the form and scrutiny. The software is divided into three parts.

Registration: An applicant can register and receive login details

Applicant Data Entry: After successful login, the applicant has to pay the application fee in online mode and fill their personal, academic as well as miscellaneous data and upload their documents.

Application Scrutiny (<https://cld.aau.ac.in/admission/admin>):

In this module, university personal are assigned the applications for scrutiny at two different levels. The super admin then generates the merit list and publishes the same online as per the direction of the Registrar.

2. Online Counselling System (<https://cld.aau.ac.in/counselling>)

The University uses its own counselling software for admission of applicants into various degree programmes based on their merit, applicable quota as well as choice. The system has various modules as detailed below:

- a. **Reporting Module:** Through this module the applicant is assigned to the eligible degree programme.
- b. **Verification Module:** To verify the details provided by the applicant.
- c. **Counselling Module:** Through this module The Deans of the respective colleges and the Director of PG Studies interact with the applicant and also verifies the antecedents of the student.
- d. **Hostel Module:** The Director of Student Welfare and the Chief Warden uses this module to allot hostel seats to the deserving students.

- e. Register Module: This module allows the Registrar to finally admit the student based on the outcome of the earlier modules.
- f. Payment Module: This module allows the accounts division to collect the admission fee in online mode from the successful applicant.
- g. Report Module: This module provides the admission details as per college/department/quota/category to the administration.
- h. Orientation Module: The final reporting of the student during orientation is tracked through this module

3. **AAU Departmental Content Management System (DCMS)**

(<http://www.aau.ac.in/admin/departments/login>)

This DCMS provides a framework for the academic departments and research stations to publish information related to their department/station on the AAU web site. Login details are provided to all the department/stations for uploading their contents. The individual departments/stations/Centers are welcome to populate their data on the DCMS as per their convenience. The DCMS provides the framework for publishing information regarding:

- a. Details about the department /station,
- b. Department's profile photo
- c. Branch / Sub Branch
- d. Courses (Undergraduate, Post Graduate and Doctoral)
- e. Faculty Details
- f. Achievements
- g. Research Progress Report (RPR) approval etc.

AAU Faculty Content Management System (FCMS) (<http://www.aau.ac.in/admin/faculty/login>)

This FCMS is available in the AAU website, where each faculty member can maintain their detailed profile using their own login id/password. The FCMS can be used to publish the following details:

- a. General Information
- b. User profile photo
- c. Educational Qualification
- d. Employment details
- e. Achievement
- f. Publications details
- g. Research Projects
- h. Research Progress Report
- i. Society affiliations etc.

4. **Research Progress Report (RPR)** (<http://www.aau.ac.in/admin/rpr/login>)
The Research Progress Report is used for monitoring ongoing research projects carried out by individual faculties, scientists etc., at the headquarters and different outstations. Through this facility individual faculty members submit periodical reports on their research projects to their controlling officer, who in turn verifies the information provided and if satisfied, submits the report to the Directorate of Research.
5. **ID Card Application System** (http://14.139.222.137/aau_idcard/)
The online Identity card management system is used to apply for University ID cards by the Faculty members, Employees and Students. The ARIS Cell uses the backend of the same software to get the applications validated and print out of ID cards.
6. **Online Library Attendance Register System** (<http://aau.ac.in/aau-library/>)
This software is used for recording of library attendance by university employees and students who use the library facilities. The person's ID card is used to validate the users. Consolidated reports are also made available for library attendance.
7. **Online Grievance System** (<http://www.aau.ac.in/grievance>)
This software is used for submission of grievance by any employee and students using their ID Card details as validation.
8. **AAU IT Data** (<http://14.139.222.137/aau-it-data>)
This software is responsible for collection of IT related equipment details. This software is in development phase.
9. **AAU Digital Contacts** (<http://www.aau.ac.in/digital-contacts>)
This software is responsible for getting the contact details for University Employees and Students. User needs to login using their AAU email id in order to authenticate themselves to use this software.
10. **AAU Recruitment Software**
This software will be used for recruiting faculty and staff for the university as well as state departments.
11. **Integrated University Management System (IUMS)** (<https://iums.aau.ac.in/aaulve>)
IUMS stands for Integrated University Management System. It is basically a software which is used in organizations, Universities etc to automate the whole process of manual doings into system generated works. Assam Agricultural University has also implemented IUMS from May 16, 2013. However, the salary module has been in real time use since June 1, 2019. Following are the modules that are currently running in the University for various types of works-

1) HRMS & Payroll - This module is used for processing salary of employees, transfer of employees from one DDO to another, new recruitment's entry.

2) Bill Tracking System- This module is used for processing different types of bills like Contractual employee's bill, TA bill, FVC bill etc. This module is also used for approval of bills by DDO's.

3) Financial Accounting - This module is used for creating different types of Vouchers like Payment vouchers, Receipt vouchers, Journal Vouchers etc.

4) GPF - This module is used for generating GPF related reports (monthly & annually) and also to maintain records of different GPF accounts of employees.

5) Self-service portal - This module is used by every employee for generating salary slip and also to maintain their own user profile. **Developed and maintained: ITI Limited, New Delhi. Operation by ARIS**

12. **Library Management Software (Koha)** (<http://asuj.bestbookbuddies.com/>)

Rev B. M. Pugh Library has implemented automation of library at KOHA LMS under ICAR library strengthening project. The library functions are operational at Koha LMS for the library users. The bibliographic database of the library's collection is well functioning through the OPAC module on Koha. ARIS provides logistic support to the system.

13. **EZ-Proxy service:** Through this service users residing or staying outside the Jorhat and Khanapara campus can avail the online access to various journals and bibliographic databases provided by the library

C. Online facilities:

1. **G Suite for Education:** Through this various G Suite apps are made available for online use of the users. Some examples are -

- a. Gmail for @aau.ac.in domain
- b. Google Drive
- c. Google Docs
- d. Google Sheets
- e. Google Slides
- f. Google Calendar
- g. Google Chat
- h. Google Meet
- i. Google Classroom
- j. Google Form

2. **Microsoft Office 365 A1 license:** Through this various Microsoft Office 365 apps are made available for online use of the users. Some examples are -

- a. MS Word
 - b. MS Excel
 - c. MS PowerPoint
 - d. MS Outlook
 - e. MS OneDrive
 - f. MS OneNote
 - g. MS Teams
 - h. MS SharePoint
 - i. MS Sway
 - j. MS Form
 - k. MS Calendar
3. **Email id:** ARIS is providing emails for employees as well as students. Anyone who uses official email as @aau.ac.in G-Suite, educational facilities are available for them mentioned in point 1.

Wi-Fi/internet facilities in campus and hostels

A Campus LAN on fibre-optic backbone connects all departments and establishments in the Jorhat Campus with the Central Server Site of ARIS, by which Internet and e-mail facility are made available to all teachers, students and officers/ employees of the University through VSAT (ernet). Internet facility is also available for the students in the Cyber Café located in the Central Library.

Similarly, a Campus LAN connects all departments including library of College of Veterinary Science with the Central Server Site located in the Dean's administrative building by which Internet and e-mail facilities are made available to the students , faculties and other employees of CVSc, Khanapara. In this campus also a Cyber Café located in the Central Library provides Internet facility to the students.

Internet connectivity through VSAT is also available in the BNCA, Biswanath Chariali and CFSc, Raha campuses. Dial-up Internet connectivity is also available in the RARS, Titabor and RARS, Shillongoni.

Computer based library management, videoconferencing facilities, smart class rooms and workshops

Rev B. M. Pugh Library along with campus libraries of constituent colleges have implemented automation of library through the application of Library Management Software (Koha) under ICAR library strengthening project. The library functions are operational at Koha LMS for the library users. The bibliographic database of the library's collection is well functioning through the OPAC module on Koha. ARIS provides logistic support to the system. Access of vast number of e-resources can be done by log on to CeRA, Krishikosh and DELCON through high speed bandwidth internet connectivity. Through **EZ-Proxy service**, users residing or staying outside the Jorhat and Khanapara campus can avail the online access to various

journals and bibliographic databases provided by the library. The Rev B M Pugh Library also provides Electronic Document deliver service to deferent ICAR, SAU and CAU institute across the country.

Under ‘Online Library Attendance Register System’ a software is used for recording of library attendance by university employees and students who uses the library facilities. The person’s ID card is used to validate the users. Consolidated reports are also made available for library attendance. The online Identity card management system is used to apply for University ID cards by the Faculty members, Employees and Students. The ARIS Cell uses the backend of the same software to get the applications validated and print out of ID cards.

The surveillance system of the Rev B M Pugh Library is fully covered by CCTV with powerful camera including night vision provision in certain areas.

Video conferencing facility is made available in few conferences hall across the university. The classroom and laboratories of each constituent college of AAU are constructed adhering to ICAR norms. The College of Agriculture, Jorhat has been developing one class room in each department as a technology enhanced smart classroom integrated with the facilities of smart board, digital displays, tabs, Wi-Fi/ Internet provision, projector, listening devices, air conditioning and other audio-visual accessories. So far 10 numbers of classrooms in different departments are developed as smart classroom. Likewise, 3 numbers of classrooms at College of Veterinary Science, Khanapara. And 3 numbers of classrooms at SCS College of Agriculture, Dhubri have been developed as smart classroom.

6.6.7.3. Students and Staff Amenities

Give brief report on the sporting and recreational activities, employment and career advice, child care, financial advice and food services, entertainment avenues etc. available in the campus.

Sporting and recreational activities

There are sprawling playgrounds in all campuses for outdoor games such as Football, Cricket and Athletics. The facilities for sports, games, and cultural and literary activities available in the Jorhat Campus are common for students of Agriculture, Community Science Sericulture and Horticulture Faculties. There is one basketball court and 3 (three) volleyball courts with night playing facilities in the Jorhat campus. A well lighted and well-equipped indoor stadium for playing Badminton, Table-tennis, Carrom, Chess etc. are available within the college campus for the students. For outdoor games, there are three volley ball grounds with night playing facilities, one basket ball court and one football ground are available in the campus. For athletics there is one play ground with space for 400 m athletics track. A multi gymnasium hall of national standard and one well equipped 15m x 25m Swimming Pool with adequate washrooms and very good filtration unit are available for the use of students as well as teachers of Jorhat campus.

The CVSc, Khanapara has a playground covering an area of 7.01 ha for outdoor games like football, Cricket as well as for holding annual tract and other events of the students. The 53.53 sq. m Student's Recreation Centre houses the common room with Table Tennis Board and a music hall. The 298.44 sq. m Gymnasium building with multi-gym facility serves as a bodybuilding and health club for students. A 180 sq. m Volley ball court is also available for students.

The BNCA has a playground of 33.4 sq. m area which is utilized for playing outdoor games. There are indoor stadia at Biswanath Chariali, Raha campuses for badminton, table tennis and other indoor games. Both the campuses have well equipped gymnasium for the students.

There are well equipped Auditoriums in Jorhat, Khanapara, Biswanath Chariali, Raha campuses with all facilities for exploring the inherent talent of students. There is a well equipped centrally Air- Conditioned 1546.4 sq. m Auditorium of 750 sitting capacity for different cultural activities of the University in the Jorhat campus.. Student's literary activities like fine arts & wall magazines are usually exhibited with the facilities provided in the Central Library and the Auditorium. The 419.90 sq. m Auditorium at CVSc, Khanapara serves the students for all their cultural activities like Music competition, Drama, Skit competition , Quiz, Debating, Extempore speech etc. as well as for holding Annual Cultural Nites. The other colleges also have an auditorium each for conducting different programmes.

Employment and career advice

The University has a “Training and Placement Cell” at Jorhat campus for student counseling and placement. This Cell regularly provides counselling for higher education and placement including orientation of students through various soft skill tools. The cell organizes training programmes on Personality Development, Communication Skills, Leadership and such other areas. The Cell also organizes campus interviews for recruitment in various Private and Corporate Sector Companies. It has complete infrastructural facilities (fully air-conditioned group discussion room, interview room, office, waiting hall etc.) for conducting campus interviews, computers with net connectivity for job search and resume posting by the students and own website for job information, resume posting and other related helps. Large number of the graduate and post graduate students of this university have been placed in different organizations involved in Research and Development, Business, Banking areas in Agriculture, Veterinary Science, Fishery Science and Community science. The faculties also organize training programmes for the students appearing in different competitive examination like ICAR/JRF/ Assam Civil Service etc.

At Faculty of Veterinary Science, the Training and Placement cell runs in the college under a senior faculty as the In-charge. Different job oriented training programmes are organized to update the knowledge and getting employment by the passed out students. In addition, advertisements for jobs in different institutions/ organizations are communicated to students by the placement cell.

At faculty of Fisheries, one of the faculty is entrusted the responsibility of placement cell. The cell helps providing the way to the passed outs for their placement opportunities as well as showing them avenues for self employment.

For the students of Faculty of Community Science the Training and Placement Cell operative in AAU, Jorhat campus takes care of placement and career development trainings of the graduates and post-graduates.

Child Care

There are a number of children parks for entertainment of the young children. The campus roads are aesthetically managed. It is envisaged to make all campuses into green campuses under green initiative.

Food services

More than 90 percent of AAU students reside in hostels. The hostel messes are administered by the Mess Management Committee headed by the wardens of the respective hostels. The cooks and menials of the hostels are either contractual or regular employees of the University. The Mess Management Committee operates the food catering service on a no profit

no loss system. The food served is mostly of average to good quality with more care taken towards hygiene.

There are College Canteens in all the college campuses which serve the students, teachers and other staff of their refreshment needs at subsidized rate. In the main university campus at Jorhat, small outlets named “Varsity” have been installed to provide students anakes and other quality foods at a very nominal rate.

6.6.8. Financial Resource Management

6.6.8.1. Budget allocation:

Give the budget allocation (College wise) for salary, contingency and amount received through the ICAR development grant during last five years. Give a note on the sufficiency of the fund to meet the academic requirement in last five years.

Assam Agricultural University receives funds and grants-in-aid from various funding agencies viz., ICAR, Government of India (GOI), DBT, ARIASP etc. besides State Government of Assam. The State Government of Assam provides grant-in-aid for the state sector scheme and contributes 25per cent matching contribution towards central sector schemes. The Budget allocation of the University from 2015-16 to 2019-20 is presented in the following Table.

Table: Budget allocation of the University from 2015-16 to 2019-20

Budget Head	2015-16		2016-17		2017-18		2018-19		2019-20	
	Rs. in Lakh	%	Rs. in Lakh	%	Rs. in Lakh	%	Rs. in Lakh	%	Rs. in Lakh	%
State revenue	19329.01	67.00	21315.81	69.44	24246.00	62.89	30975.00	67.19	44828.83	78.12
Govt of India	2229.22	7.73	3221.20	10.49	3359.91	8.71	3695.90	8.02	1058.09	1.84
ICAR	6223.60	21.57	5708.40	18.59	9625.18	24.96	9913.75	21.51	9529.87	16.61
Internal Receipt	1068.40	3.70	455.00	1.48	1325.00	3.44	1512.00	3.28	1965.81	3.43
Total	28,850.23	100.00	30,700.41	100.00	38,556.09	100.00	46,096.65	100.00	57,382.60	100.00

The allocated budget of Assam Agricultural University was Rs. 28850.23 lakh during 2015-16 which increased to Rs.57382.60 lac in the year 2019-20. Among the different sources, major share was received from State Government (68%- 78%) followed by the allocation received from ICAR (16% - 25%). University also receives a substantial amount of fund from Govt. of India.

College/ establishment/campus wise grant received from ICAR

The college/ establishment/campus wise detail of grant received from ICAR from the year 2016-17 to 2020-21 is presented below.

Table: Grant received (Rs. in Lakh) from ICAR from the year 2016-17 to 2020-21

Campus/ College/ Establishment	2016-17		2017-18		2018-19		2019-20		2020-21*	
	Capital	Revenue	Capital	Revenue	Capital	Revenue	Capital	Revenue	Capital	Revenue
Main campus	986.06	289.06	-	-	109.50	115.76	115.00	32.34	71.00	4.0345
College of Agriculture, Jorhat	65.00	34.00	420.00	207.00	186.00	137.50	248.00	45.00	91.60	34.80
College of Community Science	65.00	23.00	200.00	45.00	50.00	76.50	35.00	22.23	31.00	10.50
CVSc, Khnapara	75.00	31.00	395.00	125.00	451.00	103.00	501.34	30.00	55.00	12.00
CFSc, Raha	65.00	23.00	250.00	117.00	600.00	84.00	402.00	20.00	50.40	10.50
BNCA	65.00	34.00	180.00	48.00	60.00	91.50	60.00	20.00	36.00	10.50

SCSCA	65.00	34.00	120.00	65.00	246.00	87.50	99.66	17.69512	40.00	15.50
Registrar	0.00	0.00	100.00	135.72	-	-	40.00	5.00	0.00	0.00
Library	0.00	0.00	-	-	-	-	20.00	0.00	0.00	0.00
Comptroller	-	-	-	58.00	-	-	-	-	-	-
DPP	-	-	80.00	0.0	-	-	-	-	-	-
DSW	-	-	150.00	0.00	1.00	30.00	-	-	-	-
DPGS	-	-	0.00	25.00	-	5.00	-	-	-	-
Total	1854.12	2720.72	2434.76	1713.26512	472.8345					

* Rs. 232.83450 lakhs received (3rd Installment) but not included in above calculation due to non receipt of breakup.

Grant received from State Government of Assam

Grant received by the University from the State Government of Assam for research and Education from 2016-17 to 2020-21 is presented in the following Table.

Table: Grant received (Rs. In Lakh) from State Government of Assam for research and Education from 2016-17 to 2020-21

Particulars	2016-17	2017-18	2018-19	2019-20	2020-21
Fund received for Research	3895.96	4446.00	4695.40	6399.71	5237.77
Fund received for Education	17419.85	19800.00	26280.00	38429.12	26359.97
Total	21315.81	24246.00	30975.40	44828.83	31597.74

It is evident from the above information that the University has received good amount of fund from Government of Assam (GoA), Government of India (GoI) and ICAR in last five years to meet the academic requirements.

6.6.8.2. Finance Committee

Provide the schedule of the meetings of the financial committee held in last five years.

The Finance Committee meetings of Assam Agricultural University held from the year 2015 to 2019 are presented in the following Table.

Table: Schedule of the meetings of the financial committee held in last five years

Sl. No.	Date	Venue
1	08.06.2015	College of Veterinary Science, AAU, Khanapara
2	01.03.2016	College of Veterinary Science, AAU, Khanapara
3	28.09.2016	College of Veterinary Science, AAU, Khanapara
4	30.08.2018	College of Veterinary Science, AAU, Khanapara
5	30.04.2019	College of Veterinary Science, AAU, Khanapara
6	03.05.2019	College of Veterinary Science, AAU, Khanapara

6.6.8.3. Internal Resources Generation:

Give a comprehensive report (College wise) internal resource generation through different sources for last five years. How this money is being utilized for the academic programmes and research work of students? Give a brief note.

Assam Agricultural University generates Internal Revenue from different sources such as crop production, egg, meat, milk and fish production, production of bio-pesticides and bio-fertilizer, seed and planting material production, veterinary clinic, conducting training, certificate course etc. The internal resource generated from different sources of the university from the year 2015-16 to 2019-20 is presented in the following Table.

Table: Internal revenue generated from 2015-16 to 2019-20

Sl. No.	Year	Amount of revenue generated (Rs.)
1	2015-16	10,68,40,000.00
2	2016-17	4,55,00,000.00
3	2017-18	13,25,00,000.00
4	2018-19	15,12,00,000.00
5	2019-20	19,65,81,035.00

Presently the University has taken ambitious programmes to generate Internal Revenue to the tune of Rs.100 crores in next five years i.e. from 2021-22 to 2025-26.

Internal Revenue generated by the University from various sources is accumulated and being utilized for different academic programmes, research activities, extension activities and to meet the other amenities of students. The fund is mobilized to create capital assets, repair and renovation of existing structures such as Hostels, Examination Halls, Class Rooms, Equipments, and Machineries etc.

6.6.8.4. External Funding:

How much resources the University has mobilized from the external sources (give the list) based on the competitive mode in last five year?

During last five years, Assam Agricultural University has mobilized about 90 crores of INR through various regional, national and international sources through the different projects/schemes received in competitive mode. The lists of projects/schemes allotted to the University along with amount of grant sanctioned over the years from 2016 to 2020 are presented in the following Tables.

List of Adhoc Project 2016-17

Sl. No.	Name of the project	Funding Agency	Name of the PI	Period	Total Grant (lakh)
1	Synthesis and field evaluation of pheromones for root grub, <i>Lepidiotia mansucla</i> under formulation of pheromones for important agricultural pests.	ICAR	Dr. B. Bhattacharyya, Ento.	1 yr 3 months	2.53
2	Seed Tape System for vegetable production in small and hilly farms of N.E. India	ICAR	Dr. P. Baruah, Ag.Eng.	2 years	22.98
3	Exploration of phytopathogenic microorganism from major crops of North Eastern states	R & D	Dr. P. Deb Nath, Pl.Patho.	2 years	9.90
4	Impact of modified microclimates on growth and pest-disease dynamics in ginger	DST	Dr. Prasanta Neog, BNCA	3 years	37.30
5	Genetic enhancement of rice for low moisture stress tolerance	ICAR	Dr. T.Ahmed, Titabar	1 yr. 3 mths	80.00
6	Elucidating the role of bacterial endosymbionts in phytopathogenic fungi for toxin production and pathogenesis	DBT	Dr. R.C. Boro, ABT	3 years	106.582
7	Management of green waste for economic benefit and women empowerment	DBT	Mrs. Bijoylaxmi Bhuyan, C.H.Sc.	3 years	40.332
8	Molecular Breeding for development cold tolerant Boro rice cultivars at the seeding stage suitable for Assam condition	DBT	Dr Akhil Ranjan Baruah, ABT	3 years	107.85
9	Design Innovation Centre DIC, IIT, Guwahati	GoA	Dr. Nandita Bhattacharyya, C.H.Sc.	1 yrs 3 months	71.55
10	Understanding the mechanisms of	ICAR	Dr. Bhagawan	3 yrs	23.88236

	tolerance to low light intensity in rice		Bharali, CP		
11	Development of Nucleus Stock of Honeybee Apis Mellifera on participatory Mode	ICAR	Dr. Ataur Rahman, Ento.	4 yrs	20.00
12	Genetic improvement of Taro through radiation technology	GoI, (BRNS)	Dr. Bijit Kr. Saud Hort.	3 yrs.	20.57650
13	Breeding for higher productivity of indigenous Joha rice of Assam through induced mutations for morpho-agronomic traits	GoI, (BRNS)	Dr. Debajit Sarma, PBG	3 yrs.	21.29150
14	Introduction of Mutations in summer green gram (Vigna radiate L. Wilczek)	GoI, (BRNS)	Dr. Akashi Sarma, PBG	3 yrs.	28.42650
15	Development and evaluation of dehydrated and irradiated jackfruit (Artocarpus heterophyllus) products	GoI, (BRNS)	Dr. Pranati Das, C. H. Sc.	3 yrs.	29.52650
16	Development of gamma ray induced mutant strain on honeybees resistant to insecticides	GoI, (BRNS)	Dr. Mukul Kr. Deka, Ento.	3yrs.	23.94650
17	Development leaf folder, Cnaphalocrocis medinalis resistance glutinous rice variety through mutation breeding	GoI (BRNS)	Dr. Purnima Das, Ento.	3 yrs.	29.22650
18	Development of stem borer (Scirpophaga incertulus) resistance Joha rice variety through mutation breeding	GoI (BRNS)	Dr. Anjumoni Deves, Ento.	3 yrs.	30.72650
19	Development of shorter duration of the mega variety Ranjit with the help of mutation and marker aided selection	GoI, Dept. of Atomic Energy (DAE)	Dr. Sanjay Kumar Chetia, RARS, TTB	3 yrs	21.814
20	Identification of genes contributing resistance to Alternaria brassicae from a nonhost plant and their characterization in Arabidopsis for durable crop protection against blight disease in Brassica rapa	GoI	Dr. Priyadarshini Bharali, ABT, Jorhat	3 years	78.75
21	Marketing Strategies for Horticultural crops in Assam	NIAM	Dr. K. C. Talukdar, Agril. Economics	8 th months	10.00
22	Induced mutagenesis for early maturing plant type of Indian mustard (Brassica Juncea(L) Coss. & Cze	GoI-BURNS	Dr. P. K. Baruah, PBG, Jorhat	3 years	26.95150
23	Participatory Technology Assessment for Enhancing Farming System Productivity and Developing Entrepreneurship for sustainable Rural Livelihood	ICAR	Dr. P. K. Pathak, ADR, AAU, Jorhat	2 years	94.25

24	Genome and Transcriptome Sequencing of Aromatic Rices from North Eastern Region	GoI-DBT	Dr. R. N. Sarma, Prof., PBG	3 years	73.94
25	Development of high yielding, non lodging and biotic resistant varieties of black scented rice of Manipur and Joha rice of Assam through Biotechnological intervention	GoI-DBT	Dr. Akhil Ranjan Baruah, Asst. Prof. ABT	3 yrs	35.84
26	Genome and Transcriptome Sequencing of Aromatic Rices of North Eastern Region	DBT	Dr. Sharmila Dutta Deka, STR, NSP (Crops)	3 yrs	16.04
27	Development of High yielding, non-lodging and biotic resistance varieties of black rice of Manipur and Joha rice of Assam through Biotechnological intervention	DBT	Dr. Sanjay Kr. Chetia, RARS, Ttb	3 yrs	36.77
28	Biodiversity studies of Aromatic Rice in North –East India	DBT	Dr. M. K. Modi,	3 yrs	49.79
29	Genome and Transcriptome Sequencing of Aromatic Rices of North-Eastern Region	DBT	Dr. M.K. Modi		35.79
30	Biodiversity studies of Aromatic Rice in North –East India	ICAR-DBT	Dr. T. Ahmed, RARS, Ttb	3 yrs	49.27
31	Centrally Sponsored Scheme NFSM funded project “Establishment/strengthening of Bio fertilizer and Bio Control production units for Increasing pulse production in India”-2016-17	NFSM	Dr. Ranjan , Prof. Soil Science Dr. L.Borah, Prof. Pl. Pathology	3 yrs	123.00
32	ICAR –National Professor programme.	ICAR	Dr B K Sarmah	From 29/04/2016 & Continue	250.00
33	Functional validation and yield related genes	DBT	Dr P K Das	From 19/10/2016 to 29/04/2020	40.82
34	Screening of indigenous rice germplasms of Assam for tolerance to anaerobic condition during germination and marker assisted introgression of traits into elite rice	DBT	Dr P K Das	From 05/09/2016 to 05/03/2020	63.16
35	“Study of mitochondrial electron transport chain (ETC) dysfunction that modulates aging and development in C. elegans through	DBT	Dr A Baruah	From 12/03/2016 to 12/09/20	123.56

	CEP-1, the worm homolog of mammalian”-			19	
36	Epidemiological studies on emerging infectious diseases of elephants (<i>Elephusmaximus</i>) with special reference to tuberculosis(TB) and elephant endotheliotropic herpes virus (EEHV)	DBT	Dr Gauranga Mahato, Prof. Deptt of Preventive Medicine, CVSc, AAU, Khanapara	3 years	37.09
37	Development of nanoparticle or micro particle adjuvanted subunit oral vaccine against poultry Salmonellosis	DBT	Dr Shantanu Tamuly	3 Years	79.47
38	A detailed study on “Seasonal influences on Broiler Production Practices, Economics and its role on self employment in 5 BRGF District of Assam”.	SIRD	Dr B K Sarmah	1 year	5.0
39	Pig Farming through promotion of farmers Producer Organization, Tamulpur Sub division, Baska (BTAD) District, Assam’	NEC		3 years	139.0
40	Development of Automatic fish seed grader cum counter	DIC-IIT Guwahati	Dr. Bibha Chetia Borah	2 years	6.00

List of Adhoc Project 2017 - 18

Sl. No.	Name of the project	Funding Agency	Name of the PI	Period	Total Grant (Lakh)
1	Defining miRNA mediated regulation of secondary metabolite accumulation in cypogon winterianus	GoI-DBT	Dr. Kamalakshi Devi, dept. of Agril. Biotechnology	3 years	34.23
2	Wild mushroom from N.E. India:Evaluation of their nutritional status and medicinal properties	SERB –DST-GoI	Dr. Robin Ch. Boro, Asst. Prof., Dept. of Agril Biotechnology	3years	39.88400
3	Development of mutant with novel characteristics in Gladiolus through irradiation	GoI- DAE	Dr. Reena Borkakoti Phookan, Pr, Scientist, Dept. of Plant Breeding & Genetics	3 years	22.87400
4	Integrated approach to understand agarwood formation and value addition of Agarwood	GoI-DBT	Dr. Madhumita Borooah, Prof., Dept. of ABT	3 years	32.17
5	Structural and functional genomics study of deepwater adaptation of local	GoI-DBT	D. Priyabrata Sen, Prof. ABT	3 years	36.74

	rice landraces of Assam				
6	Developing bioactive comound enriched functional food ingredients from dillenia indica and valorization of its pomace	GoI- DBT	Dr. Manashi das Purkayastha, Asstt. Prof., Dept. of Horticulture	3 years	25.29
7	Prospect of Marketing of medicinal plants in Assam and the North Eastern Region	GoI- NMPB	Dr. Nivedita Deka, Prof. Dept. of Agril. Economics	2 years	24.076
8	Molecular Diagnostics Transcriptomics and Cisgenic Approaches to Combat Citrus Greening Disease of Citrus	GoI -DBT	Dr. Salvinder Singh, Prof. Dept. of ABT, AAU, Jorhat	3 years	52.10
9	Post Harvest loss assisment and SOPS of Post harvest management of some important medicinal plants of Assam	GoI- AYUSH	Dr. P.C. Barua, Pr. Scientist, Dept. of Plant Pathology	3 years	27.667
10	Development of Tea Polyphenol rapeseed protein microencapsulate for delivery of bioactive ingredients in functional foods in vitro and in vivo study	GoI- DBT	Dr. Manashi Das Purkayastha, Asstt. Prof., Dept. of Horticulture	3 years	124.552
11	Development, standardization and dissemination of cultivation package of medicinal plant of commercial importance in foot hill region of Eastern Himalaya	GoI-AYUSH	Dr. H. Choudhury, Assoc. Prof., Dept. of Crop Physiology, B. N. College of Agriculture, BNCA	3 years	30.546
12	Establishment of Field gene bank and Micropropagation unit for Medicinal Plant Genetic Resources of North East India	GoI- AYUSH	Dr. M.K. Sarma, Pr. Scientist, AICRPDA, B. N. College, Biswanath Chariali	3 years	37.80
13	Mainstreaming agricultural biodiversity conservation and utilization in agricultural sectors to ensure ecosystem services and reduce vulnerability	GEE	Dr. D. J. Nath, Prof. Soil Science, Dr. R.N. Borkakati, Scientist, Bio Control, Dept. of Entomology		3.20000
14	“Visiting Research Professorship (VRP) Programme”	DBT	Dr Nirupom Roy Choudhury	11 months	9.50
15	Genetic studies to understand mitochondrial electron transport chain dysfunction using Caenorhabditis elegant	DBT	Dr A Baruah	From 09/01/2017 to 9/1/2020	72.28
16	Development of High yeilding , Non	DBT	Dr B K Sarmah	From	29.76

	lodging and biotic resistance varieties of Black Scented Rice of Manipur and Joha Rice of Assam through Biotechnological intervention			19/10/17 to 19/04/21	
17	Understanding the molecular mechanism of anaerobic germination in hypoxia tolerant rice germplasms of Assam through functional genomics study	DBT	Dr P K Das	From 31/03/17 to 31/09/20	118.422
18	Studies on role of endophytes in variation of acaricidal properties of two acaricide producing plant species NBA22/F1 and NBA18/D1 from the North Eastern states	DBT	Dr Tankeswar Nath	From 11/01/17 to 10/07/20	88.50
19	Aflatoxin – tolerant duck production through genetic and epigenetic approaches	ICAR-NASF	Dr Nikhil Ch Nath,	3 years	46.7576
20	Seroservellance of Leptospira infection in animals of North Eastern region of India	DBT	Dr Durlav Prasad Bora	3 years	39.53
21	Study on persistence of Japanese encephalitis in reservoir host pig in JE endemic area of Odisha, Manipur and Assam	DBT	Dr. LuitMoni Barkalita	2 years	26.728
22	Development and evaluation of DIVA based vaccine utilizing an Indian isolate of classical swine fever virus	DBT	Dr N N Barman	3 years	42.25
23	Exploring selected natural plant sources of North East parts of India as potential therapeutic agents useful for the treatment of cancer	DBT	Dr Chandana Choudhury Barua	3 years	63.0
24	Characterization of Kisspeptin and KiSS1 gene during reproductive cyclicity and pregnancy in Assam local and crossbred cows	DBT	Dr Anubha Baruah	3 years	46.42
25	Enhancing pig productivity by optimizing bio molecular expression through nutritional intervention in the existing system of pig farming	DBT	Dr Sanjib Bora	3 years	44.56888
26	Conservation of indigenous pig of Assam through handmade cloning technique	DBT	Dr Nikhil Ch Nath	3 years	62.23
27	Isolation, characterization and development of a culture method for long term preservation of spermatogonial stem cell from doom pig	DBT	Dr.Arpana Das	3 years	72.472
28	Molecular characterization of fecundity genes in Assam Hill Goat	DBT	Dr Farzin Akhtar	3 years	45.172

List of Adhoc Project 2018-19

Sl. No.	Name of the project	Funding Agency	Name of the PI	Period	Total Grant (Lakh)
1	a) Resource used planning for sustainable Agriculture b) Policy imperatives for promoting value chains Agricultural commodities in India	ICAR-NIAP	c) Dr. Nivedita Deka, Prof. Dept. of Agril. Economics d) Dr. R. K. Sarmah, Prof. Dept. of Agril. Economics	3 years	33.62
2	Production of Healthy Planting Materials of Orange (Citrus Reticulata Blanco) & Assam Lemon (Citrus Lemon) (Linn. Burmann) through budwood certification programme and its distribution to growers in Assam and other northeastern states	GoI-DBT	Dr. A. C. Borbora, Chief Scientist Dr. R. K. Kakati, Pr. Scientist, CRS, AAU, Tinsukia	2 years	57.96
3	In Silico Screening of aldehyde based novel inhibitor for plasmodium Hdemoglobinase	GoI-Women Scientist Scheme	Ms. Trisha Rajguru Borthakur, Dept. of Agril. Biotechnology, AAU, Jorhat	3 years	18.64
4	Development of Seedlers Bhimkol through CRISPR/Cas9 and Mutation Approaches	GoI-DBT	Dr. S. Singh, Prof. Dept. of Agril. Biotechnology	3 years	33.07
5	Biotechnological Interventions through RNAi Approach for Management of Banana Bunchy Top Virus (BBTV) in Northeast Region of india	GoI-DBT	Dr. Palash Deb Nath, Prof. , Dept of Plant Pathology	3 years	15.81
6	Management of low temperature and soil moisture deficit stresses in banana grown in North Eastern India	GoI-DBT	Dr. Prakash Kalita, Prof. , Dept. of Crop Physiology	3 years	87.30
7	Molecular dissection of defense against sigatoka infection in Banana; Exploitation of Musa germplasm of North East for development of sigatoka resistant hybrid	GoI-DBT-NER	Dr. Priyadarshini Bharali, Asstt. Prof. , Dept. of ABT	3 years	37.30
8	Harnessing the potential of endophytes against root knot nematode, Meloidogyne incognita in Banana	GoI-DBT	Dr. Bhabesh Bhagawati, Prof., dept. of Nematology, AAU, Jorhat	3 years	22.01
9	Whole Genome and Transcriptome study of stress – Tolerant banana Cultivars	GoI-DBT	Dr. Mahendra Kumar Modi. Prof., & Head, Dept. of Agril. Biotechnology, AAU, Jorhat	3 years	60.30
10	Biotechnological interventions through RNAi approach for management of Banana Bunchy Top virus (BBTV) in Northeast Region of India	GoI-DBT-NER	Dr. Priyabrata Sen, Prof. Dept. of Agril. Biotechnology, AAU, Jorhat	3 years	19.85
11	Exploring diversity, genomic and	GoI-DBT-	Dr. Inee Gogoi, Asst.	3 years	20.54

	transcriptome profiling and phtosemiochemicals of Banana pest complex in NER Region-Anecological and molecular approach	NER	Prof. Dept. of Entomology, AAU, Jorhat		
12	Development of Fusarium resistant elite Banana cultivars of N. E. India	GoI-DBT-NER	Dr. Salvinder Singh, Prof. Dept. of ABT, AAU, Jorhat	3 years	22.02
13	Screening of Banana Germplasm from the N. E. for Fosarium wilt resistance and molecular characterization in contrasting genotypes	GoI-DBT-NER	Dr. Ashok Bhattacharyya, DR (Agri.)	3 years	14.03
14	Study of diversity of rice in Karbianglong district of Assam: Implication for biodiversity conservation under changed climate condition	Extra Mural grands	Dr. Ranjan Das, Associate Prof. Dept. of Plant Pathology	3 years	1.88
15	Downstream processing for utilization of banana wastes for natural fibre extaction, fiber based products, biomass briquettes & utility compounds	GoI-DBT-(NER-BPMC)	Dr. Pritom Kr. Borthakur, Prof. Dept. of Horticulture, AAU, Jorhat	3 years	7.46
16	Development of Citrus tristeza virus (CTV) resistant elite mandarin genotypes through RNAi approach to revive citrus industry in Northeast India	GoI-DBT (NER)	Dr. Palash Deb Nath, Prof. , Dept. of Plant Pathology	3 years	18.50
17	Engineering of CRISPR/Cas 9-mediated potato virus Y (PVY) resistance in Bhut Jolokia (Capsicum Chinese)	GoI-DBT	Dr. Ratna Kalita, Asstt. Prof., Dept. of ABT, AAU, Jorhat	3 years	2.95200
18	Identification of the Genetics Associated with Resistant Starch Content in Rice for nutraceutical benefits	GoI-DBT	Ms. Bhaswati Sarmah, Asstt. Prof., Dept. of PBG	3 years	1.13996
19	Consumption Pattern of food and food product/items high in fat, salt and sugar among selected cities/towns and rural population of India Jorhat	ICMR-Task Force project	Dr. Pranati Das, Prof. & Head, Food Science & Nutrition, Dept. of Community Science	1 yr 3 months	4.37950
20	Establishment of Biotechkishan hub at Assam Agril. University, Jorhat	GoI-DBT	Dr. S. Saikia, chief Scientist & PI, Kahikuchi	4 years	69.50
21	Regional-Cum-Facilitation Centre (RCFC)	GoI-AYUSH funded project	Dr. I. C. Barua, Pr. Scientist, Dept. of Agronomy		
22	Multifaceted exploration of elible Mulluscs of North East India	GoI-DBT	Dr. Badal Bhattacharyya, Pr. Scientist, Dept. of Entomology	3 years	3.96988

23	Optimizing resources for identification of potential sorghum forage hybrids using Genomic selection	GoI-DBT	Dr. Ramendra Nath Sarma, Prof., Dept. of PBG	3 years	4.29996
24	Study the virome RNAome and leaf curl diseases manifestation in Bhut Jolokia(C. Chinese) and C.fruitecens of North east India	GoI-DBT	Dr. Basanta Kumar Bora, Asstt. Prof., Dept. of Agril. Biotechnology	3years	7.43996
25	Exploring rhizospheric microbiome (PGPR and AM Fungi) for regulating the expression of Zinc transporter genes (ZRT) in rice to augment the Zinc nutrition	GoI-DBT	Dr. Dhruba Jyoti Nath, Pr. Scientist, Dept. of Soil Science	3 years	2.78996
26	Engineering resistance against cucumber mosaic virus in king chilly/chilli through RNA silencing technology	GoI-DBT	Dr. Munmi Borah, Asstt. Prof., Dept. of Plant Pathology	3 years	5.29996
26	Integrative taxonomy of insect pests of rice and their natural enemies of North East India	GoI-DBT	Dr. Purnima Das, Asstt. Prof, Dept. of Entomology	3 years	1.79996
27	Introgression of Phosphorus stress tolerant and multiple disease resistance genes into rice through market assisted selection	GoI-DBT	Dr. Akashi Sarma, Prof. Dept. of PBG	3 years	0.23996
28	Bio prospecting of some indigenous medicinal plants of NE Region of India with special reference to Anti Inflammatory properties	GoI-DBT	Dr. I. C. Baruah, Pr. Scientist, Dept. of Agronomy	3 years	7.92600
29	Building Climate resilience of Indian Small-holders through sustainable intensification and Agro-ecological farming systems to strengthen food and nutrition security	NIBIO-funded project	Dr. T. Ahmed, Chief Scientist, Titabar	4 years	2.60950
30	Understanding of molecular mechanism of defense in pigeon pea (cajanus Cajan) due to infestation by Helicoverpa amigera	DBT	Dr S Acharjee	From 12/09/2018 & Continue	46.30
31	Efficacy evaluation ofencapsulated fungal formulation for improving crop phosphorous nutrition	DBT	Dr Tankeswar Nath	From 23/03/2018 & continue	49.80
32	Cyanobacterial diversity and their bioresource potential in the North Eastern Region of India	DBT	Dr Rajen Baruah	From 31/07/2018 & Continue	64.20
33	Optimization of genome editing method for chickpea with the CRICPR/Cas system and edit AHAS1 gene for herbicide tolerance	DBT	Dr S Acharjee	From 16/07/2018 & Continue	51.732

34	Seedless plant production and mass scale propagation of <i>Musa balbisiana</i> (Bhimkol banana) of NER using in vitro approaches	DBT	Mr Manab Bikaash Gogoi	From 26/03/2018 & continue	39.50
35	Understanding the etiology of infertility associated with prolonged follicle dominance in bovine and its therapeutic management	DBT	Dr. Manjyoti Bhuyan,	3 years	74.82988
36	Molecular characterization and development of breed signatures for indigenous sheep of northeast India	ICAR	Dr. Arundhati Phookan	2 years	10.5
37	An Integrated Approach to explore and exploit the Innate and Adaptive immune response in Indigenous Duck Breeds of North Eastern and South India	DBT	Dr. Dhruba Jyoti Kalita	3 years	48.99996
38	Analysis of Gut Metagenome of Duck (<i>Anas platyrhynchos</i>) with special reference to Identification of Bacteria having Probiotic Potential	DBT	Dr. Probodh Borah	3 years	42.47
39	Molecular Platform for Epidemiology, Disease Mapping and Development of Diagnostics for Economically important Diseases of Ducks	DBT	Dr. (Mrs.) Sulekha Choudhury Phukan	3 years	210.60996
40	Genetic Up Breeding of duck production to strengthen livelihood security in NER of India by converging conventional and molecular techniques	DBT	Dr Raj Jyoti Deka	3 years	56.34996
41	An integrated omics approach to characterize circulating Newcastle disease virus and intervention strategies to control Newcastle disease in North East India	DBT	Dr. Pankaj Deka	3 years	44.06996
42	Development of DIVA diagnostics and marker vaccine against duck plague virus	DBT	Dr. (Mrs) Sutopa Das	3 years	37.06996
43	Biotechnological interventions to augment productive performance of pigs on horticultural byproduct based diet.”	DBT	Dr. Robin Bhuyan	3 years	54.38
44	DBT twining project on “Regulation of Corpus Luteum Function by Locally Produced Angiogenic Growth Factors in Pigs (<i>Sus Scrofa</i>)”	DBT	Dr. Sanjib Borah	3 years	96.54992
45	Empowerment of the rural women through capacity building in improved biotechnological innovation and application	DBT	Dr. Bikash Borthakur	3 years	49.927

46	DBT Twinning Project for the NE Region entitled “Genetic Characterization of Antibiotic Resistant <i>Clostridium perfringens</i> and <i>Clostridium difficile</i> , and their Public Health Significance	DBT	Dr. Rajeev Kumar Sharma	3 years	55.97996
47	Development of Iron-Enriched Spent Hen Meat Products for boosting layer Industry and Entrepreneurship	NABARD	Dr. Deben Sapkota	2 years	9.79
48	Molecular Epidemiology of Canine Tuberculosis in Assam, neighboring States and its Containments	DBT	Dr. Acheenta Gohain Barua	3 years	33.408
49	Prevalence and drivers of select zoonotic pathogens and use of antimicrobials in livestock farms in North-East region: A mixed methods study	ICMR	Dr. S. K. Das	2 years	45.346
50	Value Chain On Processing of Novel Duck Meat and Egg Products under Existing Farming Systems of NER for Entrepreneurship Development”	DBT	Dr. Mineswar Hazarika	3 years	50.00996
51	Assessment of Environment, Health and Ichthyofaunal Biodiversity of Tirap and Tissa Rivers of Arunachal Pradesh and Promotion of Fish Centric Supplementary Livelihood Options through a Participatory Approach	National Mission on Himalayan Studies (NMHS), Ministry of Environment, Forest and Climate Change, Govt. of India.	Dr. Rajdeep Dutta	3 years	65.00
52	Attempt to Develop Diagnostic and Preventive measure for Suspected Fish Viral Diseases encountered in Assam”	DBT	Dr. Sailendra Kumar Das	3 years	143.796
53	Sustainable Livelihood promotion through Integrated Farming System (IFS) in Schedule Tribal (ST) dominated areas of Central Brahmaputra Valley, Assam"	DBT	Mr. Manas Pratim Dutta	3 years	48.38652
54	Refinement of Process Protocol for Preparation of Traditional Fermented Fish Products of Northeast India by using Biotechnological Tools and its Process Mechanization	DBT	Dr. Bipul Kumar Kakati	3 years	66.86

List of Adhoc Project 2019 - 20

Sl. No.	Name of the project	Funding Agency	Name of the PI	Period	Total Grant (Lakh)
1.	Improved crop management and strengthened seed supply system for drought prone rainfed lowlands in South Asia	IRRI-IFAD funded project	Dr. K. Kurmi, Prof. (Agron.)	Continued	7500 U.S.D
2.	Sustainable security of the Tribal Communities of Assam through Sericulture centric promotional activities	Tribal Sub Plan (TSP) funded project	Dr. L. C. Dutta, Prof. & Head, OSD, College of Sericulture, Dept. of Sericulture	1 year	19.90
3.	Design and Development of Digital image Database with an Android Apps and Web System for the detection of major pests and diseases of coconut of Assam	Coconut Development Board (CBD) funded project	Dr. Nirmal Mazumdar, Pr. Scientist, HRS, Kahikuchi	2 yrs	18.42
4.	Morphometry Soil erodibility and productivity potential of flood prone Brahmaputra basins of Dhemaji district using Remote Sensing and GIS	GoI-SPACE funded project	Dr. Bipul Deka, Prof., Dept. of Soil Science	3 yrs	24.13
5.	Moving towards a sustainable private sector by creating responsible business behavior in tea industry in Assam	NGO-Bal Raksha Bharat, Save the children, Ghy	Mr. Dipanjan Kashyap, Asstt. Prof., Dept. of Agril. Economics	2 months	3.278
6.	Quality improvement of Tilpitha, a traditional rice product of Assam	GoI-DST-WOS-B Project	Dr. Barnali Baruah, PI, DST-WOS-B Project, Dept. of food Science & Nutrition, College of Community Science	3 yrs	30.91
7.	Upliftment of tribal population of Golaghat district of Assam through bio-input based organic ginger production	DST-GoI funded project	Dr. L. C. Bora, Prof. Dept. of Plant Pathology	3 yrs	46.35167
8.	Technology Intervention in Household Piggeries for doubling farmers' income by setting up rural transformation Clusters	DBT	Dr. K. Ahmed	2 years	56.6904
9.	Development Of Sustainable Rural Livelihood Options Through Hygienic Fish Drying Activities By Establishment Of Technology Demonstration Centre	DBT	Dr. Bipul Kumar Kakati	2 years	51.5716

List of Adhoc Project 2020 -21

Sl. No.	Name of the project	Funding Agency	Name of the PI	Period	Total Grant (Lakh)
1.	Exploring Agribusiness Opportunities in Indigenous Fruits of Assam	Indian Council of Social Science Research (ICSSR) project under Impactful Policy Research in Social Science (IMPRESS) Scheme	Dr. Manashi Gogoi, Asstt. Prof., Dept. of Agricultural Economics & FM	2 yrs	5.00
2.	Compilation of existing Government and private sector schemes relevant for the small tea growers of Assam	NGO-Bal Raksha Bharat, Save the Children, Ghy	Dr. Manisha Choudhury, Asstt. Prof., Dept. of Food Science and Nutrition, CCSc.	1 month	0.946
3.	Detection of a mushroom toxin using nanoparticle-based Sensor	DBT-NER-BPMC funded project	Dr. Robin Ch. Boro, Asstt. Prof., Dept. of Agril. Biotechnology	3 yrs	
4.	Climate Smart management Practices	IRRI	Dr. Kalyan Pathak, Pr. Scientist, DoR		USD 4000.00
5.	Integrated Development of Turmeric Sector in North Eastern and Bundelkhand Region through Sustainable Technological Interventions for Improvement of Productivity, Quality and Post Harvest Processing Technology under Good Agricultural Practices (GAP) and Organic Production System	DBT-funded	Dr. Pradip Mahanta, Pr. Scientist, HRS, AAU, Kahikuchi	3 yrs	129.06
6.	Standardization of processing and production of consumable beverage from mulberry leaves and blending with green tea	CSB, Bangalore	Dr. G. K. Saikia, Prof., Dept. of tea Husbandry & Technology, AAU, Jorhat	15 months	11.26
7.	Analysis of Holocene climate and vegetation around Tsomgo Lake, Sikkim: Implications from a high-altitude region in Eastern Himalaya	DST-Women Scientist Scheme A (WOS-A), GOI, Ministry of Science & Technology, New Delhi	Dr. Ruchika Bajpai Mohanty, Dept. of Agronomy, AAU, Jorhat	3 yrs	29.304
8.	Development of Superior haplotype based near isogenic lines (Haplo-NILs) for enhanced Genetic gain in rice	IRRI-DBT, MST, GoI funded	Dr. Sanjay Kumar Chetia, Pr. Scientist (Plant breeding), RARS, Tbt	3 yrs	156.9892

9.	Mainstreaming rice landraces diversity in varietal development through genome wide association studies: A model for large – scale utilization of gene bank collection of rice	DBT Funded	Dr. Sanjay Kumar Chetia, Pr. Scientist (Plant breeding), RARS, Ttb	5 yrs	70.9432
10.	Sustainability classification for construction of rainwater harvesting system through application of RS & GIS for efficient water management in Karbi-Anglong under the scheme: Innovation, Technology Generation and Awareness for Karbi-Anglong	Assam Science & Technology & Environment Council (ASTEC) funded project	Dr. Kabyasree Choudhury, Jr. Scientist (Agril. Engg.), AICRP on IWM, AAU, Jorhat	2 yrs	1.00
11.	Strengthening the Onion Seed in Assam through Standardization of Seed Production Technology Utilizing the Rain-shadow Belts of Karbi Anglong district of Assam	Assam Science Technology & Environment Council (ASTEC) funded project	Dr. T. P. Saikia, Pr. Scientist & PI, RARS, AAU, Shn	2 yrs	2.00
12.	Molecular characterization of Citrus germplasm of NER & systematic conservation through Establishment of Gene Repositories	DBT-MST	Dr. R. K. Kakoti, Pr. Scientist & PI, CRS, AAU, Tsk		
13.	Survey of Rural Markets (Gramin Periodical Haats) in Assam	State Innovation & Transformation Aayog (SITA), Go Assam	Dr. R. K. Sarma Dept. of Agricultural Economics & FM, CA, AAU, Jorhat	1 yr	14.63
14.	Status of Municipality Solid Waste Generation in Biswanath Chariali and Strategies of Solid waste management for Biswanath Chariali Municipality area	Deputy Commissioner Biswanath	Dr. P. K. sarma, Chief Scientist	5 months	3.70
15.	Expansion of BioTech Kisan Hub Activities in three aspirational districts (Udalguri, dhubri and Goalpara) of assam	DBT funded project	Dr. Sarat saikia, CS, HRS, Kahikuchi		
16.	Geo surveillance of Agromet Field Units for effective delivery of Agromet Advisory Services	NESAC, GoI Funded project	Dr. Prasanta Neog, PI & Prof., Dept. of Agrometeorology, BNCA	1 yr	3.50
17.	Phytochemical characterization and nutritional profiling of	DBT-GoI	Dr. A. M. Baruah, Prof. & PC & PI, Dept. of	3 yrs	147.9064

	germplasm diversity of Citrus species existing in North East Region		Biochemistry & Agril. Chem, FA, AAU, Jorhat		
18	Determinants of Unsustainability of Rural Agro-based-business ventures is the Plain Tribal Pockets of Lower Brahmaputra valley Zone of Assam for Leveraging Tribal Entrepreneurship	Welfare of Plain Tribes & Backward Classes (WPT & BC), GoA	Dr. Jayanta Kr. Sharma, Senior Scientist (Agril. Extension), HRS, AAU, Kahikuchi	1 yr	2.60
19	Harnessing Endophytes and Arbuscular Mycorrhizal Fungi from Citrus Microbiome for Plant and Soil Health Management in North East India	DBT-GoI	Dr. (Mrs.) Anjuma Gayan, Asstt. Prof., College of Sericulture, AAU, Jorhat	3 yrs	29.5712
20	Network project for “Establishment of Disease free Elite Khasi Mandarin and Sweet Orange Genetic Stocks through shoot tip grafting (STG) and Mass production of quality Planting material for North eastern states of India (Spoke centre)	DBT-GoI, NER Project	Dr. Sarat Saikia, Chief Scientist & PI, Hrs, AAU, Kahikuchi	2 yrs	54.82544
21	Collection, Conservation and Morpho-Phenological characterization of citrus germplasm of North Eastern Region (Spoke centre)	DBT-GoI, NER Project	Dr. Sarat Saikia, Chief Scientist & PI, Hrs, AAU, Kahikuchi	2 yrs	56.568
22	Collection, conservation and Morpho-phenological characterization of citrus germplasm of North Eastern region	DBT-GoI, NER Project	Dr. R. K. Kakoti, Chief Scientist i/c, AAU-CRS, Tinsukia	3 yrs	367.25304
23	Network Project for Establishment of Disease Free Elite Khasui Mandarin and sweet orange genetic stocks through shoot tip grafting (STG) of Quality Planting Material for Northeastern states of India	DBT-GoI, NER Citrus Programme	Dr. R. K. Kakoti, Chief Scientist i/c, AAU-CRS, Tinsukia	3yrs	454.79024
24	Phytochemical characterization and nutrient profiling of germplasm diversity of citrus species existing in North East Region	DBT-GoI, NER Citrus Programme	Dr. R. K. Kakoti, Chief Scientist i/c, AAU-CRS, Tinsukia	3 yrs	31.75920

	(Spoke centre)				
25	Utilization of Citrus Microbiome in Rejuvenating Khasi Mandarin in Plants affected by important citrus diseases	DBT, GoI	Dr. Madhumita Baarooah, Prof., Dpt. Of ABT, AAU, Jorhat	3 yrs	67.69188
26	Integrated Approaches towards Addressing Sustainable Agriculture among the ST/SC population with special reference to Jhum Cultivators of Karbi Anglong district of Assam	DST, GoI	Dr. Madhumita Barooah, Prof., Dpt. of ABT, AAU, Jorhat	3 yrs	77.23588
27	Utilization of Citrus Microbime in Rejuvenating Khasi Mandarin Plants affected by important citrus diseases	DST, MST, GoI	Dr. Popy Bora, Jr. Scientist, Dpt. of Plant Pathology, AAU, Jorhat	3 yrs	48.384
28	Genome wide association mapping for identification of novel genes/ QTLs of Bao rice population of Assam for deep water tolerance and nutritional quality triat	DBT, MST	Dr. Dhiren Choudhury, Pr. Scientist, RARS, North Lakhimpur	3 yrs	50.95224
29	Exploiting chemical ecology for IPM: Deciphering the phytosemiochemicals involved in insect-plant interactions of major crop pests of North East Region India (As Hub Centre)	DBT, GoI	Dr. Badal Bhattacharyya, Pr. Scientist & PI, AINP on Soil Arthropod Pests, Dept. of Ento, AAU, Jorhat	3 yrs	475.78792
30	Exploiting chemical ecology for IPM: Deciphering the phytosemiochemicals involved in Insect-plant interactions of major crop-pests of North East Region India (As Spoke Centre)	DBT, GoI	Dr. Sikha Deka, Jr. Entomologist & PI, AAU-CRS, Tinsukia	3 yrs	53.1374

List of International projects

SLNo.	Year of start	Name of International Collaborator	Name of project	Sanctioned amount
1	2019 -20	European Commission	Erasmus Mundus Programme on plant Virology for new Era: Bredind for resistance(Brave)	
2	2018-19	DBT -IRRI	From QTL to variety: Marker assisted breeding of abiotic stress tolerant rice	

	(2 nd Phase)		varieties with major QTLs for drought, submergence and salt tolerance.	
3	2018-19	Norway Institute of Bioeconomy Research, Norway	“Resilience Climate AdaptionIND15/0010” Title: Building Climate Resilience of Indian Small- holders through Sustainable Intensification and Agro –ecological Farming Systems to Strengthen Food and Nutrition Security	Rs. 2.08crores
4	2017-18	World Bank (Collaborator :IRRI, GoA, CIP, World Veg., Word Fish.	Assam Agribusiness and Rural Transformation Project(APART)	USD \$200 million
5	2018- 19	IRRI-IFAD	Improved Crop Management and Strengthened Seed Supply System for Drought Prone Rain -fed low lands in South Asia	USD7500/-
6	2018-19	IRRI-ICAR	Improved Mechanisation in Post-harvest to Reduce Losses and Improve quality.	USD5000/-
7	2018-19	UN Environment-GEF	Mainstreaming Agricultural Biodiversity Conservation and Utilisation in Agricultural Sectors to Ensure Ecosystem Services and Reduce Vulnerability.	Rs.22.57 lakh
8	2018 -19	CSIRO, Ag and Food, Australia	DBT-NECAB, Programme I	Rs.2 Crores
9	2018 -19	CSIRO, Ag and Food, Australia and Bangladesh Agricultural University	ACIAR, Australia	AUD\$150,000
10	2018-19	IRRI	Global rice array	
11	2018-19	Bill & Melinda Gates Foundation	Stress tolerant rice for the poor farmers of Africa and South East Asia(RARS Titabar)	
12	2019-20	IRRI, Philippines	Phenotyping of mapping population and donors under normal situation towards development of high-zinc rice of Eastern India.	
13	2020-21	IRRI,Philippines	Climate Smart Management Practice	USD \$4000/-
14	2020-21	Govt of Assam and World Bank	Scientific rearing of goat for women empowerment in Dhemaji and Lakhimpur district	
15	2020 -21	IRRI, Philippines	Accelerated genetic gain in rice (AGGRI-Alliance)Marginal Environment(ME) non stress and stagnant flooding(SF)	USD16,000

8.5. Financial Powers Delegation to Deans/Heads:

Give a report on the financial autonomy to College Deans, University officers and Head of the Departments

Delegation of financial power to Dean of the College

The financial autonomy of the Dean of the constituent college under Assam Agricultural University is Rs. 50,000.00 for sanctioning of equipments and recurring contingency while he has the full power to sanction TA for faculty and staff within the state.

Table. Financial Power of the Dean of the College

Head	Full	Partial	Amount (Rs. In Lakh)
Equipment	--	✓	0.50
TA for Staff	--	✓	Full power within the State
Recurring Contingency	✓	--	0.50
Others	--	--	--

Delegation of financial power to Head of the department

The financial power of Head of the department is Rs.50,000.00 for sanctioning of equipments. In case of recurring contingency HoD has the power up to Rs. 30,000.00. He does not have any power to sanction TA to the faculty and staff.

Table. Financial powers of the Head of the Department

Head	Full	Partial	Amount (Rs. In Lakh)
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Equipment	--	✓	0.050
TA for Staff	--	--	--
Recurring Contingency	--	✓	0.030
Others	--	--	--

8.6. Finance Utilization

Mention in brief about per cent finance utilization in last five years.

During last five years, Assam Agricultural University could utilize 100 per cent of fund received from State Govt. of Assam. Utilisation of fund received from Govt. of India was also more than 90 per cent. However, among the years, the utilization of fund was the lowest in 2016-17 (91.00%) and the highest in the year 2019-20 (95.00%). Similarly, the funds received from ICAR were utilized in tune of 98 to 99 per cent.

Table: Utilization of fund in last five years

Year	Budget Head							
	State revenue		Govt of India		ICAR		Internal Receipt	
	Fund received (Rs. In lakh)	Fund utilized (% of received fund)	Fund received (Rs. In lakh)	Fund utilized (% of received fund)	Fund received (Rs. In lakh)	Fund utilized (% of received fund)	Fund received (Rs. In lakh)	Fund utilized (% of received fund)
2015-16	19329.01	100.00	2229.22	94.00	6223.60	99.00	1068.40	39.00
2016-17	21315.81	100.00	3221.20	91.00	5708.40	98.00	455.00	37.00
2017-18	24246.00	100.00	3359.91	92.00	9625.18	99.00	1325.00	29.00
2018-19	30975.00	100.00	3695.90	93.00	9913.75	99.00	1512.00	27.00
2019-20*	44828.83	100.00	1058.09	95.00	9529.87	98.00	1965.81	37.00

* Due to COVID 19 pandemic the remittance letter from various funding agencies yet to be received. As such, the figures shown in this row may not be treated as final.

6.6.9. Accomplishments

6.6.9.1. Awards for the University: Provide the detailed list of Regional, National and International Awards received by the University in last five years

(A) **Awards and recognition received at Institute level:** Various awards and recognitions received by Assam Agricultural University and its faculties are presented below.

Year	National Awards (Institute Level)
2015-16	Sardar Patel Outstanding ICAR Institution Award 2014 to AAU - Assam Agricultural University, Jorhat, earned the most prestigious Sardar Patel Outstanding ICAR Institution Award. The award was presented to the University and Dr. K. M. Bujarbaruah, Hon'ble Vice Chancellor on behalf of the University received the award from the Hon'ble Prime Minister of India Shri Narendra Modi on the occasion of 87th Foundation Day and ICAR Award Ceremony on July 25, 2015 at Patna. The Best Krishi Vigyan Kendra Award 2013 (Zone III) to KVK Kamrup - The best Krishi Vigyan Kendra Award 2013 (Zone III) was presented to KVK, Kamrup by ICAR, New Delhi on the occasion of Annual Conference of Vice Chancellors of Agricultural Universities and Directors of ICAR Institute held from May 14-16, 2015 at A. P. Shinde Symposium Hall, NASC Complex, Pusa, New Delhi. Best Activity Award conferred to KVK Kamrup - Certificate of Appreciation was conferred to KVK, Kamrup to acknowledge contribution towards large-scale intervention of improved lentil technologies for increased income and nutritional security for farmers through DAC-ICARDA-ICAR collaborative project under NFSM-Pulses on Jul. 10, 2015 at NASC Complex, New Delhi Best AICRP Centre Award to RARS, TITABOR - The Golden Jubilee Best AICRIP Centre Award for outstanding contribution to AICRIP during the year 2014 was conferred to RARS, Titabar in the 50th Rice Research Group Meeting held on April 11-15, 2015. Extension Education Institute (NE Region) of AAU rated the Best EEI in the Country - On the basis of physical achievements, financial performance, magnitude of activities and quality of capacity building, the Extension Education Institute of North Eastern Region (EEI of NE Region) of AAU was rated as the best among the EEIs of the four regions of the country during 2015-16.
2016-17	Assam Agricultural University, Jorhat bagged the “Best Centre Awards” for ICAR Seed Project for the year 2015-16

	• Krishi Vigyan Kendra, Jorhat, Assam Agricultural University was conferred the “Pandit Deendayal Upadhaya Rashtriya Krishi Vigyan Protoshahan Puraskar”, 2016 of Indian Council of Agricultural Research, Ministry of Agriculture & Farmers Welfare, Govt. of India. • Jorhat centre of “All India Coordinated Research Project on Agrometeorology (AICRPAM)” “was adjudged the Best Centre for dissemination of agromet advisory services for the year 2015-16.” • The “Best Research Work” award has been conferred to the AICRP on Honey bees and Pollinators, Assam Agricultural University, Jorhat. • Jorhat Centre under All India Coordinated Research project on "Micro and secondary nutrients and pollutant elements in soils and plants (AICRP-MSPE), AAU was adjudged as the Outstanding AICRP-MSPE Centre at 28th National Workshop & Interface Meeting held on Mar. 21-23, 2017, Bhopal. • Assam Agricultural University, Jorhat (AAU, Jorhat), bagged the ‘Best Centre’ award at Research Conclave, IIT, Guwahati (IITG) held during March 16-19, 2017. • The Trademarks and Geographical Indication (GI) Authority, Govt. of India has awarded the GI tag for Joha rice of Assam • ‘Doom’, a native variety of pig of Assam, has been registered as a breed with accession number 'INDIA_PIG_0200_DOOM_09006' by the Breed Registration Committee of the Indian Council of Agricultural Research (ICAR), New Delhi.
2017-18	• The Assam Agricultural University, Jorhat Centre of India Coordinated Research Project on Potato received the prestigious “Best AICRP (Potato) Centre Award” for the year 2017. • The AINP on Soil Arthropod Pests, AAU, Jorhat Centre was conferred “Excellent Centre Award” for the year 2017 for the outstanding research activities with novel findings on <i>Lepidiota mansueta</i> . • Dept of Entomology, College of Agriculture, AAU, Jorhat, was awarded as the Best research centre of AICRP honey bee and pollinators at Dr. Y.S Parmar University of Horticulture & Forestry, Solan, Himachal Pradesh, India.
2018-19	• Honorary Membership Award received by Dr. K. M. Bujarbaruah, Hon’ble Vice-Chancellor, AAU, Jorhat at 27th National Conference of Soil Conservation Society of India, New Delhi held at Assam Agricultural University, Jorhat during 25th-27th October, 2018. • AICRP on Agrometeorology (AICRPAM) AAU, Jorhat, received the Best Centre award of AICRP on Agrometeorology for the year 2017-18 on 15th November, 2018.
2019-20	• Prestigious Padma Shri award was conferred to Prof. K.K. Sarma , Professor, CVSc, AAU, Khnapara on the occasion of the republic day, 2020.

(B) International , National and Regional Awards /recognition received by faculties in last five years

Year	International awards received by Faculties of AAU
2016-17	Dr. Dulal Chandra Roy, Professor cum PI, Dept. of Pharmacology & Toxicology, CVSc, AAU, Khanapara was conferred the Award for ‘Research Excellence-2016’ on Sept. 13, 2016 at the Indo-American Education Summit 2016 organized by the Indus Foundation, New Jersey, USA at Taj Vivanta Ambassador, New Delhi for his creative expression and outstanding contribution to the knowledge in advancement of scientific research..
2017-18	- Dr. T. Ahmed, Chief Scientist, RARS, Titabar was awarded with a plaque of appreciation on 2nd May, 2017 at NASC complex, New Delhi for his significant long-term contribution to Rice research by International Rice Research Institute (IRRI) towards his substantial leadership in the development of submergence tolerant rice varieties. - Dr. Dulal Chandra Roy, Professor and PI, Dept of Pharmacology & Toxicology, CVSc, Khanapara, begged the award for Educational Leadership by Indus Foundation, USA - Dr. T. J. Ghose, Principal Scientist (Soil Science), RARS, Titabar was conferred the award for his valuable contribution in agriculture in the International conference on Food & Agriculture held in Dhanbad, Jharkhand during 29-31st March, 2018. - Dr. B. K. Sarmah, Centre Director & Professor, Dept of Agricultural Biotechnology, CA, Jorhat, was awarded with a certificate of Outstanding Reviewer (2017) by Plant Science (Elsevier) journal. - Dr. Pranab Dutta, Scientist (S-II), AICRP on MAP and Betelvine, Dept. of Plant Pathology, CA, received the ICPP-2018 Bursary Assistance Award by American Phytopathological Society.
2018-19	- Dr. Aditi Smith Gogoi, Assistant Professor, Department of Tea Husbandry & Technology, Jorhat, was awarded the Young Scientist Award in First International Congress on Cocoa Coffee and Tea Asia, 2018 held from 17th-20th October, 2018 at Hefei, China. - Dr. D.C. Roy, Professor cum P.I., Department of Pharmacology & Toxicology, CVSc, Khanapara was conferred D. Lit. degree Ashcroft University, London, UK, on 7th April, 2018 at Bengaluru, Karnataka, at the National Unity Conference. - Mr. Rudra Narayan Barkakoty, Jr. Scientist, Department of Entomology, Jorhat, received the Best Oral Presentation Award in ‘International Conference on Climate Change, Biodiversity and Sustainable Agriculture’

	held at AAU, Jorhat from 13th-16th December, 2018. • Dr. Leema Bora, Department of Extension Education of CVSc, Khanapara received the Best presentation award in ‘International Seminar on Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held on 27th to 28th February, 2019 organized by CVSc, AAU, Khanapara on the occasion of AAU Golden Jubilee. • Dr. Munmi Borah, Jr. Scientist, Department of Plant Pathology, Jorhat received the second-best Poster Presentation award in International Symposium on ‘Biotechnology for Food-Nutritional Security & Organic Agriculture’ organized by NE CAB, AAU, Jorhat during 25th-26th March, 2019 at AAU, Jorhat. • Mr. Bhabesh Gogoi, Junior Scientist, AICRP on IFS, Department of Soil Science, Jorhat. received the Best Paper Award for oral presentation for the paper entitled ‘Carbon Footprint Estimation in the Integrated Farming System: An Assam Agriculture Experience’ in the International Conference on ‘Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018)’ held at AAU, Jorhat, Assam from 13th-16th December, 2018. • Dr. R.A. Hazarika, Prof. & Head, Department of Veterinary Public Health, CVSc, AAU, Khanapara received the “Letter of Appreciation” for active co-operation and participation in International Conference on ‘Intensifying Food Systems and Health: Emphasis on Antimicrobial Use in Agricultural Systems’ organized by International Livestock Research Institute from 4th to 6th April, 2018 at Jaipur, Rajasthan. • Dr. Trishna Borpuzari, Professor, Department of Livestock Products Technology, CVSc, Khanapara awarded “Third prize in Oral Presentation” for the paper “Development of Ready To Serve Whey-Based Fruit Beverage’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Dr. M. Hazarika, Professor & Head, Department of Livestock Products Technology, CVSc, Khanapara. • Bagged the First Prize in the Poster Presentation titled ‘Development and Quality Evaluation of <i>Bhujia</i> Incorporated With Spent Hen Meat Powder’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Recipient of the Third Prize in Oral Presentation titled ‘Development of Ready-to-Serve Whey-Based Fruit Beverage’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU,
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	Khanapara, on 27th - 28th February, 2019. • Dr. Rita Nath, Professor, Department of Biochemistry, CVSc, Khanapara awarded Third prize in Oral Presentation titled ‘Development of Ready-to-Serve Whey Based Fruit Beverage’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Dr. A.K. Sharma, Professor, Department of Livestock Production & Management, CVSc, Khanapara awarded Third prize in Oral Presentation titled ‘Development of Ready-to-Serve Whey Based Fruit Beverage’ in ‘International Seminar on Animal agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Drs. Prasanta Neog, D. Saikia, R.K. Goswami, and Mrs. R.R. Changmai, BNCA, were awarded the Best Paper award in Oral Presentation category for the paper titled ‘Management of Rhizome Rot Disease of Ginger Though Adjustment of Microclimate in North Bank Plain Zone of Assam’ presented in the International Symposium on ‘Advances in Agrometeorology for Managing Climatic Risk of Farmers’ held from 11th-13thFebruary, 2019 at JNU, New Delhi. • Dr. Santosh Upadhyay, Junior Scientist, AICRP on PHET, CVSc, Khanapara, ▪ Bagged the First Prize in Poster Presentation for the paper ‘Development and Quality Evaluation of <i>Bhujia</i> Incorporated with Spent Hen Meat Powder’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. ▪ Awarded the First Prize in Oral Presentation for the paper titled ‘Development of Liquid Smoke Production Plant’ in ‘International Seminar on Animal agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Dr. Protiva Gogoi, Junior Scientist AICRP on PHET, CVSc, Khanapara. ▪ Bagged the First prize in Poster Presentation for the paper titled ‘Development and Quality Evaluation of <i>Bhujia</i> Incorporated With Spent Hen Meat Powder’ in ‘International Seminar on Animal Agriculture for Doubling Farmers’ Income: Technology, Policy and Strategy Options’ held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. ▪ Got the First prize in Oral Presentation for the paper titled ‘Development of Liquid Smoke Production Plant’ in ‘International
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	Seminar on Animal agriculture for Doubling Farmers' Income: Technology, Policy and Strategy Options' held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. • Dr. Ankur Das, Assistant Professor, Department of Livestock Products Technology, CVSc, Khanapara. ▪ Got the First Prize in Poster Presentation for the paper titled 'Development and Quality Evaluation of <i>Bhujia</i> Incorporated with Spent Hen Meat Powder' in 'International Seminar on Animal Agriculture for Doubling Farmers' Income: Technology, Policy and Strategy Options' held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019. ▪ Bagged the First prize in Oral Presentation for the paper titled 'Development of Liquid Smoke Production Plant' in 'International Seminar on Animal Agriculture for Doubling Farmers' Income: Technology, Policy and Strategy Options' held at College of Veterinary Science, AAU, Khanapara, on 27th-28th February, 2019. ▪ Dr. Deepsikha Deori, Jr. Scientist AICRP on PHET, CVSc, Khanapara awarded 1st prize in Oral Presentation for the paper titled 'Development of Liquid Smoke Production Plant' in 'International Seminar on Animal agriculture for Doubling Farmers' Income: Technology, Policy and Strategy Options' held at College of Veterinary Science, AAU, Khanapara, on 27th - 28th February, 2019
2019-20	• Dr. Nilay Borah, Professor, Department of Soil Science, was conferred with the 'Gold Medical Award-2018' for his contribution in the field of Natural Resource Management including Soil and Water Conservation through Research, Teaching and Extension at Joint International Conference of SCSi, WASWAC and ISCO on Soil and Water Resources Management for Climate Smart Agriculture and Global Food and Livelihood Security New Delhi, organized by Soil Conservation Society of India (SCSi), New Delhi from 5th - 9th November, 2019. • Mr. Dipanjan Kashyap, Department of Agril. Economics and FM,CA,AAU,Jorhat received two awards in Greece Conference for his contributions in the field of food, Agriculture and Biological Sciences (i) Young Researcher Award 2019-20 (ii) Best Oral Presentation Award.

Year	National Level Awards received (Faculties)
2015-16	AAU Scientist awarded with the Prestigious 'Norman Borlaug Chair in International Agriculture' by ICAR • In a rare pursuit of excellence, an agricultural scientist from Assam Agricultural University, professor Bidyut Kumar Sarmah has been awarded by the Indian Council for Agricultural Research, New Delhi with the prestigious Norman Borlaug Chair

Fakhruddin Ali Ahmed Award for Outstanding Research conferred to AAU Scientists

- Dr. Badal Bhattacharya, Sr. Scientist, AINP on White Grubs & other Soil Arthropod Pests, Dept. of Entomology, AAU, Jorhat, Assam had been conferred Fakhruddin Ali Ahmed Award for Outstanding Research in Tribal Farming Systems in a function held at Patna on July 25, 2015.

Several others awards/ recognitions are:

- Best Oral Presentation Award was given to the paper entitled “Eco-friendly approaches for the management of Flacherie disease of muga silkworm under the agro-climatic condition of Assam” authored by M. Marak ; P. Dutta and L.C. Dutta in the symposium on “Plant Health Management in North East India” held at ICAR Research Complex for NEH Region, Meghalaya on January 15-16, 2016.
- Mr. A. Borah, Research Engineer, Dept. of Agril. Engineering, CA, Jorhat had been awarded Ph.D in Agril. Engg. by Assam University, Silchar.
- The paper presented by Ms. Udesna Talukdar, a Ph. D. student in the Dept. of Agricultural Economics & Farm Management, College of Agriculture, Jorhat was adjudged one of the ten best papers with cash and certificate award in the 75th Annual Conference of Indian Society of Agricultural Economics held at Punjab Agricultural University, Ludhiana from Nov. 19-21, 2015.
- Priyakshi Buragohain, Rojeet Thangjam, D.K. Saikia and R.K. Borah of the Dept. of Entomology were given the Best Oral Presentation Award (2015) in the National Entomologists’ Meet, at IINRG, Ranchi, Jharkhand.
- Best Poster Presentation Award was received by Rupashree Das and Anjumoni Deves (2015) in the National Seminar on Sustaining Hill Agriculture in Changing Climate, Umiam, Meghalaya.
- Dr R. M. Karmakar, Professor & Head, Department of Soil Science, FA, AAU, Jorhat was felicitated by CRIDA, Hyderabad on Dec.,25, 2015 for his contribution as First Chief Scientist, AICRPDA Centre, Jorhat.
- Dr. P.C. Barua was (i) selected as a National level “Curator” for the crop *Piper longum*
(ii) nominated as “Chairman” to preside over a session in the International IUPAC Conference on “Agrochemicals Protecting Crops, Health and Natural Environment” held at New Delhi from April 6-9,2016 .
- Dr. J. K. Gogoi, Prof., Agril. Economics, College of Agriculture, Jorhat was invited for moderation of question paper for AIEEA-PG (2016) at Krishi Anusandhan Bhawan, New Delhi on February 8, 2016.
- Mr. Basanta Kumar Borah, Associate Professor, Dept. of Agril. Biotechnology, CA, Jorhat was invited as External Examiner (Practical) by the DR College, Golaghat twice during 2015i.e. in May & December and also selected as the member of the Editorial Body of Journal of

	Enzymology and Metabolism • Mr. Basanta Kumar Borah and Mr. Robin Chandra Boro Associate Professor, Dept. of Agril. Biotechnologies, CA, Jorhat were invited by the KV-NEIST in September 2015 to act as Judge in the National Children Science Congress. Besides, they were also selected as Question paper setter for the course MBT-17 in April 2015 by USTM, Shillong. • Chief Agronomist, AICRP on IFS, AAU, Jorhat, Dr. A. Baishya attended the RAMIRAN 2015 "16th International Conference on Rural-Urban Symbiosis" and presented an oral presentation during Sep. 8-10, 2015 held at Hamburg, Germany. • Dr. D. N. Kalita, Professor & Dr. D. Barman, Asst Professor, Dept. of Veterinary Clinical Medicine were honoured with Second Best Poster Presentation Award by Indian Society for Veterinary Medicine, XXXIII convention, 2015, held in KVASU, Pokkode, Weyanad, Kerala, w.e.f. Jany.22-24, 2015. • Dr. Anil Deka received the prestigious "Dr. C. Vijayaragavan Memorial Silver Jubilee Medal and Award" for Best Oral Presentation in Avian Anatomy Technical session, Indian Association of Veterinary Anatomist in its XXX Annual Convention & National Symposium held from Dec.,16 - 18, 2015 at West Bengal University of Fishery and Animal Sciences, Belgachia, Kolkata. • Dr. Nandita Bhattacharyya, Associate Professor, Department of Family Resource Management had been selected as an expert member of the Technical Committees of International Organization for Standardization (ISO/TC 159/SC 01 "General ergonomics principles") by Bureau of Indian Standard (BIS), Govt. of India. At present Dr. Bhattacharyya is working on International standard formulation of 27501-27501 and 27503 series. Dr. Bhattacharyya represented India at Technical Committee of ISO-TC-159-SC-1 N 27501-27503 of International Organization of Standardization (ISO) in its 8th Working Group Meeting held at Paris, France from November 13 -14, 2016 under the sponsorship of Bureau of Indian Standards (BIS). Besides, Dr. Bhattacharyya had been recognized as coordinator of spoke institute of Design Innovation Centre, HUB (IITG) • Dr. Jinamoni Saikia, Associate Professor, Department of Human Development & Family Studies had been conferred upon the Best Research Paper Award for the paper entitled 'A Study on Emotional Intelligence of Adolescents' published in Advance Research Journal of Social Science by Sam Higginbottom Institute of Agriculture, Technology, & Science, Deemed University, Allahabad, on the occasion of Founders Day on October 27, 2015. Dr. Saikia was also selected as an individual member (with no membership fee) 'based on the contributions towards the relevant field by an International organization viz., Consortium for Research on
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	Emotional Intelligence in Organization. • Dr. Manoshi Baruah Deka, Dept of Extension and Communication Management, Faculty of Home Science presented a research paper in the Global Summit on Herbals and Natural Remedies held on Oct., 26-27, 2015 in Chicago, USA. • Dr. Pranati Das, Professor and Head, Dept of Food Science and Nutrition, Faculty of Home Science, AAU, Jorhat, attended 47th Annual National Conference of Nutrition Society of India (NSI), at National Institute of Nutrition, Hyderabad, from Oct. 8-10, 2015 as the Convenor of the Jorhat Chapter of NSI. • Dr.(Mrs) Biva Chetia Bora, Incharge, FRC, Jorhat was invited by the ICAR-CIFE, Mumbai for (i) setting question paper for course No. FEX-506: Gender, Livelihood and Development (2+1) of the MFSc programme (2014-16) II Semester (ii) acting as External Examiner for Ph.D. Viva voce examination for Ms. Banti Debnath, Ph.D Scholar (iii) evaluation of answer books of Course No. FEX-506: Gender, Livelihood and Development (2+1) of the MFSc programme (2014-16) II Semester (iv) conducting of Viva voce for Mr. Hinu Fernandez, MFSc (2013-15 batch) in the discipline of Fisheries Extension (FEX-MA3-06) and (v) also conducting comprehensive Viva -voce examination for Ph.D. student (2012-15 batch & 2013-16 batch) in the discipline of Aquaculture (AQC). Besides, she had been recognized as Ph.D. guide by (i) West Bengal university of Fisheries and Animal Science and (ii) ICAR-Central Institute of Fisheries Education, Mumbai
2016-17	• Dr. Runima Sarmah, Professor, Deptt. Of Biochemistry and Agril.Chemistry, College of Agriculture, Assam Agricultural University, Jorhat Received “Reviewer Excellence Award” , Indian Journal of Agricultural Research-An International Journal. • Dr. Sundar Barman, Asst. Professor, Dept. of Extension Education, CA, Jorhat was conferred upon the “Best Extension Professional Award-2017” for outstanding contribution in the discipline of Extension Education by the Society of Extension Education, Agra in its 8th National Extension Education Congress-2017 on “Nutrition-Sensitive Agriculture: Changing Role of Extension” held at ICAR-NAARM, Hyderabad during January 28-31, 2017. • Dr. Kalyan Pathak (Principal Scientist), Dr. Abhijit Sarma (Professor) and Pompy Deka (Student) of the Dept. of Agronomy, College of Agriculture, Jorhat received the “Best Poster Award” in the 1st Asian Conference on ‘Water and Land Management for Food and Livelihood Security’ (WLMFLS-2017) organized by IGKV, Raipur and Soil Conservation Society of India, New Delhi during January 20-22, 2017 at Raipur. Dr. R. M. Karmakar, Professor & Head, Department of Soil

	Science, CA, Jorhat was selected as Editor, Journal of the Indian Society of Soil Science, New Delhi. • Dr. K. N. Das, Professor, Department of Soil Science, CA, Jorhat was conferred with the Fellow of Indian Society of Agricultural Biochemist (F.I.S.A.B), Kanpur on December 6, 2016 at AAU, Anand, Gujarat. • Dr. Niloy Borah, Professor, Department of Soil Science, College of Horticulture, Nalbari was conferred with the Fellow of Indian Society of Agricultural Biochemist (F.I.S.A.B), Kanpur on December 6, 2016 at AAU, Anand, Gujarat. • Dr. Borah was also honoured with the “ Leadership Award 2016 “ by Soil Conservation Society of India, New Delhi. • Dr. Gitanjali Devi, Junior Scientist, AICRP on Nematodes, Dept. of Nematology, CA, Jorhat received the consolation prize for the “Best Paper Presentation Award”. The paper entitled, ‘Rearing of entomopathogenic nematodes in termite (<i>Odontotermis obesus</i>, Ramb.)’ was presented in the National Symposium on Climate Smart Agriculture for Nematode Management, held at ICAR-Central Coastal Agricultural Research Institute, Ela, Old Goa, India from Jan.11-13, 2017. • Best Poster Presentation Award was received by S. Alam , B. Gogoi , P.K.Borthakur, P.Kalita and P.Dutta in the National Conference on Tropical Tuber Crops for the Sustenance and Welfare of Tribal Communities held at CTCTR, Trivandrum on Oct.20-22, 2016. The title of the Poster was “Convenience food from Nal Kachu (<i>Cololcasia antiquarum</i> var <i>stolinefera</i>) and locally available fruits.” • Dr. R N Barman, Professor, Dept. of Agril Economics and Farm Management , Biswanath College of Agriculture was awarded the ‘Dr. N. A .Mujumdar Prize Award’ for ‘Best Paper Presentation’ in the 76th Annual Conference of Indian Society of Agricultural Economics. • Afrina Ara Ahmed, Pranab Dutta and others received Prof K S Bilgrami Paper Presentation Award (3rd) for the paper entitled "Efficacy of <i>Metarhizium anisopliae</i> against termite in tea ecosystem" at 38th Annual conference and national symposium organized by Indian Society of Mycology and Plant Pathology, Udaipur and Bidhan Chandra Krishi Viswavidyalaya (BCKV) at BCKV, Mohanpur (Nadia), West Bengal on Nov.24-26, 2016. • Pranjal Kaman was nominated for “Prof M J Narashimham Award” to contest at national level for the paper on "Biosynthesis of silver nano particle and its effect against soil borne pathogens" authored by Pranjal Kaman, Pranab Dutta, S. Rahman and M. R. Das during North East Zonal meeting, Indian Phytopathological Society , and National Seminar on "Facilitating a shift from chemocentric to organic mode of plant health management in the North East, held on Nov. 04-06, 2016 at AAU,
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	Jorhat. • Dr. Anil Deka, Assistant Professor, Dept. of Anatomy, CVSc, Khanapara received the Young Scientist Award of Indian Association of Veterinary Anatomist (IAVA) in its XXXI Annual Convention and National Symposium. • Dr. Anil Deka was honoured with the Best Assistant Professor Award in Veterinary Science for the year 2016 from Pearl Foundation –A Foundation for educational Excellence. • Dr. Snehangsu Sinha, Teaching Associate, Department of Anatomy, CVSc, Khanapara received “Excellent Professional Achievement Award”, 2016 in Professional Awards and Honors’ organized by Society of Professional Engineers (SPE) in Association with Indian Society of Medical Science, Madras. • Dr. Snehangsu Sinha received the “Bharat Gaurav Award” conferred by India International Friendship Society, Delhi • Dr. Dulal Chandra Roy, Professor cum PI, Dept. of Pharmacology & Toxicology, CVSc, AAU, Khanapara was conferred Bharat Jyoti Award-2016 on Aug. 13, 2016 at India International Centre, New Delhi for meritorious services, outstanding performance and remarkable role in advancement of Science at a Seminar cum Award function organized by India International Friendship Society (IIFS). • Dr. Roy was also conferred the Award for ‘Research Excellence-2016’ on Sept. 13, 2016 at the Indo-American Education Summit 2016 organized by the Indus Foundation, New Jersey, USA at Taj Vivanta Ambassador, New Delhi for his creative expression and outstanding contribution to the knowledge in advancement of scientific research. • Dr. Dulal Chandra Roy, Professor cum Principal Investigator, Dept. of Pharmacology & Toxicology, CVSc, AAU, Khanapara was conferred Bharat Jyoti Award-2016 on Aug. 13, 2016 at India International Centre, New Delhi for meritorious services, outstanding performance and remarkable role in advancement of Science at a Seminar cum Award function organized by India International Friendship Society (IIFS). • Dr. Sarojini Mahanta Tamuli, Professor, Dept. of Pathology, CVSc, Khanapara had been conferred upon “ ICVP –DIPLOMAT” award of certificate in the XXXIII Annual Conference of Indian Association of Veterinary Pathologists and National Symposium held on Nov.9-11, 2016 at Durgam, Chattichgarh. • Dr. B. C. Deka, Professor & Head, Dept. of ARGO was honoured with “Dr. A.S. Kaikini Award of ISSAR-2016” by the Indian Society for the “Study of Animal Reproduction (ISSAR)”. • Dr. Mridula Saikia Baruah, Associate Professor, Dept. of Food Science and Nutrition, received the “Best Poster Presentation” Award under the Plant Genetic Resources session in the 1st International Agro-
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	biodiversity Congress (IAC2016) held on November 6-9, 2016 at NAAS Complex, New Delhi. • Dr. Sayanika Borah, Assistant professor, Dept. of Extension and Communication Management, Faculty of Community Science received the ‘Best Participant Award’ in the Summer School on “New age extension strategy for communication proficiency and managerial skill for extension professionals: Concept, Approach, Methodology and Application” at the Department of Agricultural Extension, BCKV, West Bengal, (2016).
2017-18	• Dr. Gobin Chandra Bora, Professor and Principal Scientist, Dept of Plant Breeding and Genetics, CA, Jorhat, received the National award for “Excellence in Research” in Agriculture and Allied Sciences by the Samagra Vikas Welfare Society, Lucknow. • Dr. P. Neog, Dept of Agrometeorology, BNCA received the “Award of Excellence for outstanding dissemination of Agromet Advisories to Famers” conferred by IMD, MoES, GOI during the ARM of GKMS project held at IGKV, Raipur from 15-17 Nov, 2017. • Dr. K. K Sarma, Professor & Head Dept of Vety. Surgery & Radiology, CVSc, Khanapara, received the Best paper award under the category ‘Short Communication’. {Sharma, P., Singh, C. K. & Sarma, K. K. (2017): Management of Ulcerative Wounds with Placental Extract in a White Bengal Tiger (<i>Panthera tigris</i>) : Intas Polivet Vol. 18 (1)} • Dr. Dulal Chandra Roy, Professor and PI, Dept of Pharmacology & Toxicology, CVSc, Khanapara was awarded the Mahatma Gandhi Excellence Award by IIF, New Delhi. • Dr. Dulal Chandra Roy, Professor and PI, Dept of Pharmacology & Toxicology, CVSc, Khanapara received the Bharat Ratna Mother Teresa Gold Medal Award by GEPR, New Delhi. • Dr. Pranati Das bagged the Excellence in Research Award, 2017 by Samagra Vikash Welfare Society and Babasaheb Bhimrao Ambedkar University, Lucknow on February 10-11, 2018. • Dr. Mamoni Das received the Excellence in Teaching Award, 2017 by Samagra Vikash Welfare Society, Lucknow and Babasaheb Bhimrao Ambedkar University, Lucknow on February 10-11, 2018. • Dr. Abhijit Borah, Research Engineer and P.I of AICRP on PHET, Dept. of Agril. Engineering, College of Agriculture, AAU, Jorhat was awarded the Best Paper Award for the year 2017 by Indian Society of Agricultural Engineers (ISAE) for the paper entitled, “Energy utilization efficiency and entrepreneurial potential of a solar-biomass integrated drying system” published in Journal of Agricultural Engineering 54 (2). • Mr. Dipanjan Kashyap, Assistant Professor, Dept of Agril. Economics & F.M. CA, Jorhat bagged the Best Trainee Award in ICAR sponsored Winter School on ‘Developments in organic farming in tropical islands

	in India’, held at Port Blair. • Dr. K. K Sarma, Professor & Head Dept of Vety. Surgery & Radiology, CVSc, Khanapara, received ‘Letter of Appreciation’ from Prof. Gautam Biswas, Director, IIT, Guwahati for Life Long Dedication and Contribution to the field of Wildlife Health Care and Conservation on the occasion of ADNAT Silver Jubilee Convention, International Symposium on Biodiversity& Biobanking, 27-29th January, 2018.
2018-19	• Dr. K.K. Saharia, Department of Extension Education of CVSc, Khanapara received Sr. Randhir Singh Award for the Best of Gender Issues on Management of Indigenous Breeds in Hilly Areas at XXVI Annual Convention of the Indian Society of Animal Production and Management, College of Veterinary and Animal Sciences, Mannuthy, Thrissur-680651, Kerala during 23rd to 25th January, 2019 • Dr. D.C. Roy, Professor cum P.I., Department of Pharmacology & Toxicology, CVSc, Khanapara, bagged the Bharat Udyog Ratan Gold Medal Award, 2018 presented by Global Economic Progress and Research Association at Bengaluru on 7th April, 2018. • Dr. M. K. Sarma, Professor, BNCA, received reviewer’s Excellence Award, ARCC, Hissar, Haryana. • Mrs. Ranjana Deka, Assistant Food Microbiologist, from the Department of Agricultural Engineering, CA, AAU, Jorhat adjudged as the Best Trainee in the Winter School Training on ‘Entrepreneurship Development through Value Addition of Underutilized Crops’ sponsored by ICAR, New Delhi and organized by College of Agricultural Engineering and Technology, Orissa University of Agriculture and Technology (OUAT), Bhubaneswar from 15th November to 5th December, 2018. • Dr. Bitupona Deuri, Assistant Professor, Department of Surgery & Radiology, Khanapara, Awarded with “Dalmia Young Achievement Award”, 2018 under the category of ‘Woman Empowerment’. • Dr. K.C. Nath, Retired Professor, Department of ARGO, CVSc, Khanapara awarded with Lifetime Achievement award in ISSAR ‘Productivity Enhancement through Augmenting Reproductive Efficiency of Livestock for Sustainable Rural Economy’ during 28th to 30th December, 2018, at Anand Agricultural University, Gujarat. • Dr. Bipul Deka, Professor, Department of Soil Science, Jorhat, awarded the ‘Leadership Award’ by Soil Conservation Society of India, New Delhi (2018). • Mr. Bhabesh Gogoi, Junior Scientist, AICRP on IFS, Department of Soil Science, Jorhat received ‘Leadership Award’ by Soil Conservation

	Society of India during 27th National Conference held during 25th- 27th October, 2018 at AAU, Jorhat, Assam. • Dr. Kushal Konwar Sarma, Professor & Head, Department of Surgery & Radiology, Khanapara, received Certificate of Appreciation from Dy. Director, Dudhwa Tiger Reserve for ‘Commitment and Outstanding Service’ during the greater one-horned rhinoceros translocation exercise in the park from 10th to 13th April, 2018. • Dr. Chandrani Goswami awarded Certificate of Appreciation for completing her research project under the Research Capacity Building Programme by Public Health Foundation of India, Gurgaon. • Dr. S. Sonowal, Assistant Professor, Department of Veterinary Public Health, CVSc, Khanapara received Certificate of Appreciation for involvement as a Core group Member in PERIMILK study by Public Health Foundation of India, Gurgaon. • Dr. Danish Tamuly, Assistant Professor, Department of Soil Science, Jorhat, received the Best Paper award ‘Toxicity and Bioremediation Feasibility of Iron (II) Through <i>Bacillus</i> spp in Few Indica Rice Cultivars of Assam: A Laboratory Study’ in Oral Session in the 27th National Conference of Soil Conservation Society of India, New Delhi, held at AAU, Jorhat during 25th - 27th October, 2018 • Dr. Anil Deka, Assistant Professor, Department of Anatomy & Histology, CVSc, Khanapara awarded the Best Paper award in Anatomy of Wild and Zoo Animals at XXXIII Annual Convention and National Symposium of IAVA at Aizwal, held on 28th -30th November, 2018. ▪ Dr. Abhijit Borah, Principal Scientist, Department of Agricultural Engineering, Jorhat, bagged ISAE Best paper award for the year 2017 on ‘Energy Utilization Efficiency and Entrepreneurial Potential of a Solar-Biomass Integrated Drying System’. ▪ Mrs. Ranjana Deka, Assistant Food Microbiologist, from the Department of Agricultural Engineering, CA,AAU, Jorhat bagged the second prize in National level essay competition on ‘Contribution of Innovative Agricultural Processing Technology/Machinery in Farmers’ Prosperity and Need of New Technology/Machinery in Context of Above’ hosted by Department of Agricultural Process Engineering and AICRP on PHET, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. ▪ Mrs. Ranjana Deka, Assistant Food Microbiologist, from the Department of Agricultural Engineering, CA,AAU, Jorhat bagged the 3rd Prize in Poster Presentation in Conference on ‘Climate Change,
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	Biodiversity and Sustainable Agriculture’ (ICCB SA 2018), AAU, Jorhat, from 13th-16th December, 2018, titled: Waste Utilization and Processing of Citrus Fruits for Cost Effective Value Added Food Products and their Biochemical Analysis. • Dr. Premila Bordoloi, Assistant Professor, Department of Food Science and Nutrition awarded as Best Poster Award under Food Science section at 50th Annual International Conference of Nutrition Society of India held at Hyderabad, Telengana. • Dr. Anjuma Gayan, Assistant Professor, Soil Science, College of Sericulture, Titabor, awarded as Best Poster award in 27th National Conference of Soil Conservation Society of India, New Delhi, on Sustainable Management of Soil and Water Resources for Doubling Farmer’s Income, 25th-27th October, 2018. • Dr. Munmi Borah, Jr. Scientist, Department of Plant Pathology, Jorhat, received the second-best Poster Presentation award in International Symposium on ‘Biotechnology for Food-Nutritional Security & Organic Agriculture’ organized by NE CAB,AAU, Jorhat during 25th-26th March, 2019 at AAU, Jorhat. • Dr. Munmi Borah, Jr. Scientist, Department of Plant Pathology, Jorhat, received the Best Poster Presentation award in Research Conclave, 2019 organized by Indian Institute of Technology, Guwahati during 14th-17th March, 2019. • Dr. Anjali Basumatary, Professor, Department of Soil Science, Jorhat, received the Best Paper award in 27th National Conference on ‘Sustainable Management of Soil and Water Resources for Doubling Farmers’ Income’ for paper ‘Spatial Variability of Fertility Status in Soils of Dhubri District of Assam’ held during 25th-27th October, 2018 at AAU, Jorhat. • Dr. R.A. Hazarika, Prof. & Head, Department of Veterinary Public Health, CVSc, AAU, Khanapara recieved ▪ Certificate of Appreciation for involvement as Core group member in PERIMILK study by Public Health Foundation of India, Gurgaon. ▪ Certificate of Appreciation for involvement as Core group member in Research Capacity Building Programme by Public Health Foundation of India, Gurgaon. • Dr. Jakir Hussain, Assistant Professor (LPM), CVSc, Khanapara, awarded with the N.S.R. Sastry Eight-Sisters NE for Best LPM Research for his oral presentation of research paper entitled ‘Effect of Restricted Suckling on the Growth Performance of Hampshire Piglets’ in the National Conference on ‘Innovations in Animal Production for
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	Sustainability and Doubling Farmers' Income' & 26th Annual Convention held at the College of Veterinary and Animal Sciences, Mannuthy, Thrissur, Kerala (Kerala Veterinary and Animal Sciences University) from 23rd- 25th January, 2019. ▪ Dr. A. Gohain Barua, Professor, Department of Veterinary Public Health CVSc, Khanapara received Certificate of Appreciation for involvement as Core group member in PERIMILK study by Public Health Foundation of India, Gurgaon. • Dr. Bibha Chetia Borah, Principal Scientist & Officer-in-Charge, Fisheries Research Centre, Jorhat bagged the Prof. B.N. Pandey Medal (ZSI) in the 31st All India Congress of Zoology and National Seminar on 'Climate Smart Aquaculture' organized by NESFA, India and Zoological Society of India from Minister of Fisheries, Govt. of Tripura, Shri N.C. Debabarma, DDG (Fisheries), ICAR, Dr. J.K. Jena, and Vice-Chancellor, CAU, Imphal Dr. M. Premjit Singh.
2019-20	• Dr. K.K. Sarma, Department of Surgery & Radiology, CVSC, Khanapara received the PADMASHREE award, declared on Republic Day, 2020 . • Dr. Iswar Chandra Baruah, Professor, Department of Agronomy, CA, AAU, Jorhat received the prestigious "Recognition Award for Weed Taxonomy Works" from the Directorate of Weed Research, Jabalpur in October, 2019. • Dr. Purnima Das, Assistant Professor, Department of Entomology, CA, AAU, Jorhat was awarded the Dr. B.V. David Women Scientist Award in the field of Agricultural Entomology for the year 2019. • Dr. D.C. Roy, Department of Pharmacology and Toxicology, CVSc, AAU, Khanapara received ➤ Adarsh Vidya Saraswati Rastriya Puruskar, 2019. ➤ Bharat Ratna Dr. Abdul Kalam Gold Medal Award, 2019. ➤ Mahatma Gandhi Life Time Achievement Award, 2019. • Dr. Pulakabha Choudhury, Head, KVK, Cachar was conferred Lifetime Achievement Award on Agricultural Engineering by Allahabad University • Dr. B. Bharali, Department of Crop Physiology, received Reviewer Excellence Award: Legume Research, ARCC Journal, Haryana (India). • Dr. Anjumoni Deves, Department of Entomology, received Young Scientist Award, 2019 given by Agricultural & Environmental Technology Development Society, U.S. Nagar, UK, India, in International Conference on Global Perspective in Agricultural and Applied Sciences for Food and Environmental Security (GAAFES-2019), held from 1st -2nd December, 2019. • Dr. Ananta Madhab Baruah, Department of Biochemistry & Agricultural Chemistry received ➤ 'Distinguish Scientist in Biochemistry', conferred by Venus

	International Foundation-Centre for Advanced Research & Design, 3rd August, 2019, Chennai, India. ➤ The Dewang Mehta National Education Awards- ‘Best Professor in Biochemistry Studies’ in the award ceremony held on 26th February, 2020 in Hotel Vivanta, Guwahati, organized by the Business School Affairs & Dewang Mehta National Education Awards, India • Prof. B.K. Sarmah, Department of Agricultural Biotechnology AAU, Jorhat received Outstanding reviewer certificate, 2019 awarded by the Indian Society of Genetics and Plant Breeding, New Delhi. • Dr. Ratna Kalita, Department of Biotechnology received the Best Oral Presentation award at National Workshop on Potential Biotechnology Programmes Using Bioresources of the NE Region from 12th - 14th September, 2019, DBT-NECAB, AAU, Jorhat, for presentation entitled ‘Understanding incidence of viral disease in Capsicum chinense Jacq. - A systems Biology approach’. • Dr. Jamini Saikia, Dr. A.C. Barborah., Dr. R.K., Kakoti, Dr. J.P. Dutta, Dr. Sikha Deka, and Dr. Arunima Gogoi, Citrus Research Station, AAU, Tinsukia, received the Best Paper Award (Poster Session; paper: ‘Effect of different methods of propagation on vegetative characters of Assam lemon (<i>Citrus limon</i>) selections’) under Technical Session II: Citrus Production System on the tropic at National Citrus Meet – 2020, held at Biswanath College of Agriculture, AAU, during January 10th - 12th, 2020 organized by ICAR- Central Citrus Research Institute, Nagpur. • Dr. Kamal Behari Dev Choudhury, Department of Veterinary Anatomy & Histology received ‘Dr. A.M. Srivastava Gold Plated Silver Medal & Award For Outstanding Ph.D. Research in Anatomy during the year 2018’ On XXXIV Annual Convention Of Indian Association of Veterinary Anatomists and National Symposium held in Department of Veterinary Anatomy, Veterinary College, Bengaluru - 560024 from 28th - 30th November, 2019. • Dr. Kamal Behari Dev Choudhury, Department of Veterinary Anatomy & Histology received ‘Dr. A.M. Srivastava Gold Plated Silver Medal & Award for Outstanding Ph.D. Research in Anatomy during the year 2018’ On XXXIV Annual Convention Of Indian Association of Veterinary Anatomists and National Symposium held in Department of Veterinary Anatomy, Veterinary College, Bengaluru - 560024 from 28th - 30th November, 2019. • Dr. Bhupen Sarma, Department of Surgery & Radiology was awarded the Best paper award and won the Gold Medal for paper presentation titled ‘Detomidine, Azaperone, butorphanol anaesthesia and reversal with Atepamezole in Asian Rhinos’ at symposium of Indian society for Veterinary Surgery (ISVS-2019) at Nausari, Gujarat, held from 14th to 16th November, 2019.
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	• Dr. Ditul Barman, Department of Veterinary Clinical Medicine, Ethics & Jurisprudence, received Veterinary Internal and Preventive Medicine Society Appreciation Award, 2019 at VIPM conference 2019 held in Mathura, UP, from 8th to 9th November, 2019. • Dr. Sayed Abdul Arif, Department of Veterinary Clinical Medicine, Ethics & Jurisprudence, got the ISVM Merit Award for Ph.D. Thesis Research, 2018. • Dr. Saidul Islam, Department of Parasitology, CVSc, Khanapara won the Best Oral Paper Presentation Award in Annual Convention of Veterinary Internal and Preventive Medicine Society & National Symposium on ‘Sustainable Improvement in Animal Health and Production –Bridging Science and policy for Economic Upliftment of Farmers’, held in CVSC & AH, Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura & Central institute for Research on Goats, Mathura from November 8th - 9th, 2019. • Dr. R.A. Hazarika, Department of Veterinary & Public Health was awarded Certificate of appreciation for involvement as Core group member in Research Capacity Building Programme by Public Health Foundation of India, Gurgaon, held on 1st April, 2019 at New Delhi.
2020-21	• Dr. Bhabesh Gogoi, Jr. Scientist (Soil Science), CA, AAU, Jorhat was conferred the “Dr. Rajendra Prasad Scientist Award” by the Society of Tropical Agriculture, New Delhi during 11th International Conference on <i>AGRICULTURE, HORTICULTURE AND PLANT SCIENCES</i> in New Delhi on 19-20 December, 2020. • Dr. Munmi Borah, Jr. Scientist, AICRP on Soybean, AAU, Jorhat was conferred IPS Best Poster Presentation Award for the paper “Prevalence of Soybean Diseases in North Eastern State Assam” • Dr. Sarodee Boruah, SMS (Pl. Protection), KVK, Tinsukia was conferred the ‘Best Woman Scientist Award, by the Society of Krishi Vigyan. • Dr. Deepandita Barman Lakhimpur College of Veterinary Science received the Best thesis award in “National Webinar on Farm, Food and Farmer” organised by Samagra Vikas Welfare Society (SVWS) from 24th to 25th September, 2020 • Dr. Deepandita Barman Lakhimpur College of Veterinary Science received Best Poster Award (1st prize in E-poster competition organised by Animal Nutrition Society of India and Professional Youth for One Health on 3rd November, 2020.

Year	Regional Awards (Faculty Level)
2016-17	• Dr.Tamzuddin Ahmed, Chief Scientist, RARS Titabar received the “Best Research Scientist” Award for the year 2016 from the Faculty of Agriculture in the 48th Foundation Day Assam Agricultural University. • Dr.Palash Deb Nath, Professor, Dept. Of Plant Pathology, College of Agriculture, Jorhat received the “Best Teacher” Award for the year 2016 from the Faculty of Agriculture in the 48th Foundation Day Assam Agricultural University. • Dr. Rupam Borgohain, Programme Coordinator, KVK, Jorhat received the “Best Extension Scientist” Award for the year 2016 from the Faculty of Agriculture in the 48th Foundation Day Assam Agricultural University. • Dr. Probodh Borah, Professor & Head, Dept. of Vety. Biotechnology, CVSc., Khanapara received the ‘Best Teacher’ Award for the year 2016 from Veterinary Faculty in the 48th Foundation Day of Assam Agricultural University Jorhat. • Dr. Niranjana Kalita, Professor and Head, Dept. of Poultry Science, CVSc., Khanapara received the ‘Best Research Scientist’ Award for the year 2016 from Veterinary Faculty in the 48th Foundation Day of Assam Agricultural University Jorhat. • Dr. M.Borah, Assistant Professor, Dept. of Plant Pathology, College of Agriculture, Assam Agricultural University, Jorhat was given “Best Oral Presentation Award” under the theme “Nano and biotechnological approaches for plant disease diagnosis and management” in the NE Zonal meeting of Indian Phytopathological Society held on Nov.4-5 ,2016 at AAU,Jorhat.Dr. Borah was also nominated for competition in the Guman Devi Memorial Best Women Scientist for the year 2016 from the Indian Society of Mycology and Plant Pathology.
2017-18	• Dr. K. K Sarma, Professor & Head Dept of Vety. Surgery & Radiology, CVSc, Khanapara, bagged the Excellence Award from Mahatma Gandhi University, Meghalaya, on their annual Convocation on 12th March, 2018.The award was received from the Hon’ble Governor of Assam Prof. Jagdish Mukhi who states “MGU honours the man who is popularly known as the “Elephant Man of Asia” for his outstanding contributions to the wildlife. • Dr. Nivedita Deka, Professor, Dept. of Agril. Economics & F.M. College of Agriculture, AAU, Jorhat was conferred the Best Teacher Award of Faculty of Agriculture, AAU, Jorhat . • Dr. S. K. Chetia, Principal Scientist RARS, AAU, Titabar, received the Best Researcher Award in the faculty of Agriculture for the outstanding contribution in the field of rice research.. • Dr.H.K.Bhattacharya, Programme Coordinator,KVK,Dibrugarh was

	conferred the Best Extension Scientist Award on the occasion of 49th foundation day of AAU, Jorhat. • Dr. N.N. Barman Professor, College of Veterinary Science, AAU, Khanapara was conferred the Best Teacher Award, Faculty of veterinary science, AAU, Jorhat. • Dr. Chandana Chowdhury Barua, received the Best Researcher Award, faculty of veterinary science for 2017 from Assam Agricultural University, Jorhat. • Dr. Pranati Das received the Best Researcher Award, Faculty of Community Science for 2017 from Assam Agricultural University, Jorhat. • Dr. Mamoni Das bagged the Best Teacher Award, Faculty of Community Science for 2017 from Assam Agricultural University, Jorhat on 1st April, 2017. • Dr. Bibha Chetia Borah, Principal Scientist & Officer-in-Charge, FRC, Jorhat, received the Best Researcher Award of the faculty of Fishery Sciences, AAU Jorhat.. • Dr. P. Saikia, Chief Scientist, RARS, North Lakhimpur, was awarded as an Honorary Wildlife Warden, Dept of Environment & Forest, GOA for 2018-2020.
2018-19	• Dr. K. N. Das, Department of Soil Science received the Best Teacher Award, 2018-19 of Assam Agricultural University, Jorhat • Dr. B. Bhattacharyya, Principal Scientist, Department of Entomology, Jorhat, All India Network Project on Soil Arthropod Pests, AAU Jorhat Centre bagged the prestigious 'Best Researcher Award, 2018' bestowed by AAU on the occasion of Foundation day on 17th April, 2018. • Dr. C.K. Sarmah, Head, KVK Bongaigaon received the Best Extension Personnel Award of AAU in the year 2018-19. • Dr. B. Bhattacharyya, Principal Scientist, Department of Entomology, Jorhat, All India Network Project on Soil Arthropod Pests, AAU Jorhat Centre was conferred with the prestigious second 'Dr. H.K. Jain CAU Award 2015-16' for excellence in Agricultural Research in the North-Eastern States of India on the occasion of 4th Convocation of CAU, Imphal on 11th January, 2019.
2019-20	• Dr. K.K. Sarma, Department of Surgery & Radiology, CVSc, Khanapara was awarded Lifetime achievement Award-2020 by Kaziranga Wildlife Society on 28 February, 2020. • Dr. P. Saikia, RARS, North Lakhimpur was selected as Honorary Wildlife Warden, Dept of Environment & Forest, GoA for 2018-2020.

6.6.9.2. Accreditation Report from ICAR/Other Agencies: Whether the University and its Colleges were accredited by the ICAR and other agencies in the past? What was the recommendation of the accreditation agencies? Whether the University has taken the action taken report and submitted the reply to the accreditation agencies? Provide the detailed action taken report for each observation.

Assam Agricultural University a premier institution for higher agricultural education of the country has been following the directives of Indian Council of Agricultural Research, New Delhi. The basic aim of the Council is to aid, impart and coordinate agricultural education, research and extension to develop quality human resource, to develop and disseminate technology. The Council on the advice of National Agricultural Education Accreditation Board (NAEAB) evolves norms and standards for accreditation of institutions and programmes of agricultural education and accordingly the ICAR-Accreditation Board upon recommendation of ICAR-Peer Review Team granted accreditation to the Assam Agricultural University consecutively for the 2nd term up to 2021 vide Council's notification F.No.Edn.3/2/98-EQR dated 18th November, 2016.

Sl. No.	Recommendation of the Board	Action Taken
1.	University need to adapt ICAR Model Act (2009 revised) specially for appointment of Deans and Directors based on National Open Competition. Further, the delegation of financial power of Deans, Directors, HoDs and Pls of projects need to be substantially increased in order in infuse functional autonomy.	The University has been following the ICAR model act (2009 revised) for appointment of Deans and Directors across faculties. To ensure such appointment process on national open competition mode, applications from Indian Citizen are invited; the advertisement copy of which are being uploaded in University's web site and published in local, regional and national dailies from time to time. The financial power of respective Deans and Directors has been raised from Rs. 0.50 lakh to Rs. 1.0 lakh to purchase any items subject to the approval from the Primary Purchase Committee (PPC). For the items costing more than 1.0 lakh, the Deans and Director, who are also the members of Central Purchase Committee (CPC), can purchase items with due approval from CPC costing more than 1.0 lakh.
2.	Inbreeding in faculty and students need to be addressed.	To reduce the academic inbreeding in faculty level, the University through its notification made mandatory to the applicants pursuing PhD from the

		University other than from where he/she obtained two successive degrees (B.Sc & Msc.). Same procedure has been implemented for the students who wished to pursue PhD in AAU following ICAR guideline issued on 10th February 2016.
3.	Looking into the number of teaching and research positions across the University, number of varieties developed and technologies generated are not enough.	Considerable numbers of varieties as well as technologies have been generated during the period reported period since 2016-17.
4.	Appointment of regular librarian in the main campus in the cadre of professor and digitization of library at all campuses need immediate attention.	Although the advertisements for appointment of regular Chief Librarian are being published in the Local, Regional and National dailies; but suitable candidate fulfilling the essential qualification could not have been screened-out and hence a Librarian (I/C) in the cadre of Professor has been appointed temporarily in the year 2018.
5.	University has not been able to implement RAWE and ELPs following guidelines of ICAR specially in terms of sharing profit with students under ELP and stipend to RAWE.	Soon after initiation of Student READY programme by ICAR in the year 2016; the University, following the guidelines of Fifth Deans Committee has reoriented both the ELP and RAWE programmes taking the concepts of “earn while learn” & “job creators instead of job seekers” for all the disciplines of Agriculture. Fifty percent (50%) of the profit earned by the students during their learning process are shared equally among them as per the guidelines set by the individual colleges.
6.	Joint Entrance Test for admission to UG programmes in Agriculture, Home Science, Fisheries, Horticulture, and Sericulture may	Yet to be implemented

	be conducted at state level.	
7.	College of Agriculture, Jorhat, College of Home Science, Jorhat and College of Veterinary Science, Khanapara have sufficient faculty and infrastructure strength, PRT is of the view that other off-campus colleges need to be strengthened on similar line, before initiating new programmes.	The other off-campus colleges namely BNCA, Biswanath Chariali; SCSCA, Dhubri; CVSc., Khanapara; CFSc., Raha; LCVSc., North Lakhimpur are strengthened both in terms of infrastructural and academic facilities which are reflected in SSR documents submitted by the individual colleges.
8.	University need to create additional hostel facilities, specially for girls across the colleges and also other student amenities like play grounds, indoor games, canteen, hospitals etc. need due strengthening.	To accommodate students mostly girls in the AAU main campus, two hostels with a total seat capacity of 118 were constructed. Similarly, one girl's hostel each in LCVSc., North Lakhimpur and College of Horticulture, Nalbari with total accommodation capacity of 90 was set up.

6.6.9.3. Inter Institutional Standings: Status of the University in the ranking announced by agencies for academics, research, extension, sports/games, cultural events etc.

The Indian Council of Agricultural Research (ICAR) has its own ranking provision for SAUs, Deemed Universities, Central Agricultural Universities (CAUs) and Central Universities with Agriculture Faculties and based on the performance indicators of academics, research, extension, sports/ games, cultural events, the Assam Agricultural University has achieved 16th rank in 2016-2017, 36th rank in 2017-2018, 32nd rank in 2018-2019 and 49th rank in the year 2019-20.

6.6.9.4. Socio-economic Impact: Elaborate data based impact of various activities/recommendation on upliftment of the economics and social status of the farmers.

Assam Agricultural University (AAU), besides engaging in production of globally competitive human resources, has been also involved in conducting agricultural researches in frontier areas and disseminating generated technologies to the deepest corners of the state to bring sustainability in farming and food security to the ever-growing populations. Through the strong research network across the state of Assam, a good number of modern agricultural technologies has been developed by it; and recommended and included in package of practices for the farmers to uplift the agricultural crop production in Assam and rural livelihood in particular. Significant research achievements and impact so far achieved in different fields have been discussed below.

AAU developed altogether 113 numbers of crop varieties with desirable traits catering the needs of diverse farming communities and was well adopted in six agro-climatic

situations of the state, several of which were in pipeline for their release or notification. Out of the total AAU bred crop varieties, 55 varieties belong to rice, 7 green gram, 7 black gram, 2 lentil, 8 toria, 2 sesame, 8 sugarcane, 2 jute, 2 forage and 20 vegetables.

Amongst the AAU bred rice varieties, the most promising were the *Sali* or winter rice varieties like Ranjit and Bahadur and *Ahu* or autumn rice varieties like Lachit, Luit and Chilarai, which were not only extensively grown in Assam but also become popular in neighbouring states. About 70 percent farmers of the state of Assam have replaced the traditional *Sali* rice varieties with the “Ranjit” variety. Besides growing in Assam, this variety is extensively cultivated in eastern India particularly in West Bengal and Orissa for its productivity potential.

Boro or summer rice varieties viz.; Jaymoti, Bishnuprasad, Jyotiprasad, Dinanath, Swarnabh and Kanaklata, developed by AAU have higher yield potentials and replaced the traditional varieties to a great extent in the state. Farmer with the adoption of such varieties have been able to harvest 2 to 3 times more production as compared to the traditional varieties.

Assam being one of the flood affected states of the country, several ***Bao* or Deep Water** rice varieties with higher yield capacity developed by AAU like Padmapani, Padmanath, Panindra and Panchanan as well as submergence tolerance varieties like Jalashree, Jalkunwari, Plaban, Ranjit Sub-1 and Swarna Sub-1, have also been able to meet the need of farmers of flood affected areas, and are now becoming popular amongst the farming communities. Moreover, farmers have been able to combat the heavy loss caused by recurrent flood to rice crop grown during *Kharif* season by adopting three high yielding varieties of rice namely Disang, Dikhow and Kolong under the pre and post flood situations.

Thus, the adoption of new high yielding varieties, rice based technologies, suitable double cropping sequences as well as adoption of coping up strategy against flood developed by Assam Agricultural University have brought about tremendous increase in income and employment of farmers of the state by enhancing the production as well as led the state to self sufficiency in rice production. Apart from this, it has not only led to achieve the food and nutritional security of the farmers, but also contributed in upliftment of standard of living as well.

In the oilseed and pulses sectors, the performances of AAU developed *Toria* varieties (TS-46, TS-67, Jeuti etc). green gram (SGC 16), blackgram (Beki, Kolong, Sonkush, Manas, SBC 40 and SBC 47) and lentil (Axom Masur 1 and Axom Masur 2) varieties redefined the scope of double cropping in the state prompting the government to implement Mission Double Cropping with *Toria* and pulses after *sali* rice. All these varieties are gaining popularity in the entire North Eastern region and major section of farmers have replaced the traditional varieties with these varieties due their higher yield potential.

Jute and sugarcane are two important crops of the state that were suffering from productivity decline. The University developed varieties like Tarun and Apeswari in jute and CoBln 04174, Nambor, Kapilipar and Doiyang in sugarcane brought back the lost interest among the farming community as these two enterprises have become economically viable by recording a much higher molasses and jute production.

More over a memorandum of understanding signed between Utkol Seeds and AAU for quality seed production in potato has certainly helped to meet the ever felt demand of quality planting materials.

The great work of the university is that the recommendations researches have been documented and publicized for the farming community as well as for the extension personnel in the form booklets - 'Packages of Practices of Kharif Crops' and 'Packages of Practices of Rabi Crops'. These publications have created a significant impact on adoption of various technologies in a larger extent among the farmers, thus enabling them to generate more income and employment.

In horticultural sector, the quality banana planting material produced through tissue culture technique made inroads to the banana growers of the state as could be known also by the demand for such planting materials by the horticulture department, govt. of Assam. The university developed floriculture technology including identification of suitable flower varieties in orchid and non-orchid sectors helped taking up floriculture by farming community as alternative form of higher revenue generating agriculture. The major impact of the injection of this technology could be seen in Hajoo area of lower Assam where the farmers have completely diversified into floriculture with the training and support from the University. Besides, the "low cost polyhouse" technology developed for off-season vegetables and flower production has gained the popularity among the commercial growers in the state. Moreover, packaging technologies for long distance transport of pineapple, orange and tomato to extend shelf-life of perishable vegetables have been accepted by private entrepreneurs and commercial firms for its larger use. An evaporative cooling cum storage structure for fruits and vegetables developed by AAU has been showing wide acceptability by the farming community of the state.

AAU developed liquid bio-formulations like Org-Trichojal, Org-Vertijal, Org-Beauverijal and Metajal ; and solid bio-formulations like Biofor-PF and Biozin-PTB commonly known as Jaiva Kiran have been very much popular amongst the farmers of Assam and North Eastern India for its efficacy to control several dreaded diseases in vegetables including wilt disease of tomato, potato, brinjal, chilli, ginger, cabbage, cauliflower, as well as insect pests attacking several crops.

Full package of practice for cultivation of *king –chilli* has been developed and adopted by growers enhancing the productivity of the crop remarkably. This crop has made a position in agricultural export market thus international trade opportunity has been grabbed by local entrepreneurs bringing valuable foreign currency to the state.

The university's untiring effort to develop and promote small tea growers through training and capacity building resulted into formation of a strong Small Tea Growers Association in Assam producing and marketing organic tea today. The university started certificate course on Tea Husbandry and Technology since 2015 to build up the capacity of new entrepreneurs in this particular area.

Veterinary Science

- By developing a cell cultured swine fever vaccine, the College of Veterinary Science, Khanapara under Assam Agricultural University earned a good recognition. The pig

farmers of the state are benefitted to a great extent as the visible impact on controlling swine fever disease has been noticed.

- “Kamrupa” poultry breed developed and released by the College of Veterinary Science, Khanapara has been largely adopted by the poultry farmers of the state due to its local characters with enhanced egg laying capacity (160 eggs against 65-70 from local) and made visible impact among the poultry farmers in terms of income generation and nutritional security.
- The College of Veterinary Science, Khanapara under Assam Agricultural University has been able to create profound impact among the farmers by developing cross bred pig and goat varieties. The visible impact can be assessed from the performance of the TSP scheme being operated by the university in different part of the state.
- AAU-Vetmin developed by the college has been widely accepted by the farmers due to its efficacy in enhancing milk yield in cow.
- The meat pickle (AIP) developed by the university has gained popularity across the state for which private parties like Megha Food Products and J.M. Food Products came forward for commercial production and marketing.
- More over other process products developed by the college viz., Pork ham, dietary fibre enriched pork and chicken nuggets and sausage, Chicken *Jalebi*, Meat powder etc. are equally gaining popularity in the state
- Impact of the university’s efforts in strengthening and enhancing milk production and product handling aspects could be assessed from the success of its partners like *Sundar Pukhuri Milk Producers Co-operative* at Nazira and *Sitajokhola Milk Union*, Jagiroad.

Fishery

- The substantial increase in fish production in the state from 2.94 lakh metric tonne during 2015-16 to 3.73 lakh metric tonne in 2019-20 became possible due to adoption of the university developed “package of practices” by the fish farmers. As such the state has bagged four top honours in the fisheries sector, including “Best State” title among hilly states.
- AAU developed “Magur Breeding Technology” has a wide acceptance among the youths of the state and many youths have pursued this technology for self employment
- Eco hatchery model developed by the university has been equally adopted by the fish seed growers in Assam as well as other states of N.E India viz., Nagaland and Meghalaya.
- AAU has developed a fish based Integrated Farming System model and has been adopted across the state for its economic viability and sustainability as well as enhanced income generating capacity.
- The university introduced novel method of early breeding of fish for seed production before the conventional period of May /June under Green House Fishery concept led

to the technology of production of fish seeds in the month of February /March thus advancing the fish rearing period with resultant increase in productivity.

- Low cost bamboo cage culture technology developed by AAU for culture of high valued fish and rearing of quality fish seeds has been used in many *beels* of Assam.
- Solar tent drier technology to produce hygienic and quality dry fish developed by AAU has been adopted by many rural people.
- Fish pickle production technology has been taken by commercial houses and popular among the common people of Assam.
- Fish Feed “Sushma” has been developed and commercialised by the university for interest of the fish farmers of the state and farmers are benefitted to great extent.

Home Science

- Assam Mix, a clinically proven, nutritious ready to eat weaning food developed by the university is widely popular among resource poor farm household in the state and has been commercialized by M/S Aasray Concept Food, a Guwahati based industry. The weaning food having the potentiality to replace Cerelac in remote villages, is adopted as supplementary food by ICDS programme of different states including Assam. It has FSSAI (103120002000002), ISI (11536), ISO (22000-2005), HACCP certification.
- Improved ginger peeling knife for food processing industry was developed by the university and it has become quite popular and are being adopted by some food processing industries in Assam.
- A grain spreading tool – “Lakhimi” developed by AAU having capacity to enhance the efficiency of the farm women and reduce drudgery has been used by farm women to a greater extent. Similarly women-friendly farm-tool “Kuhuna” has been utilized in the rural areas for reduction of drudgery.
- Few other products, namely papaya candy, ginger and ginger lemon RTS have also been commercialized.
- The Improved tea plucking basket designed and developed by the university for reducing the drudgery, improving health and efficiency of women tea pluckers has been selected by Vigyan Prasar, DST, Govt. of India for popularization and commercialization.
- A logistic model on commercial production of vermicompost, developed under ICAR Network project on Public Private Partnership (PPP mode) of Gender Mainstreaming in Agriculture has been recommended for adoption at National Level.
- Rice picker for storing of paddy and Lemon harvester developed by AAU, are under the process of commercialization would help farm women in drudgery reduction in paddy storage and lemon harvesting.
- Several certificate courses and training programmes (viz.; handloom products, dye making, bag/doll making etc.) conducted by the faculty have significantly contributed in development of skill human resources for providing to different sectors of earning as well as for self employment.

The impacts of extension education programme of AAU in Assam are as follows

- Technology adoption in recent times has been spectacular. Collective influence of AAU extension programmes resulted in record rice production of 58.44 Lakh MT in 2019-20 against 51.25 Lakh MT in 2015-16, giving Assam a new identity in the national front.
- Quality seed production programme of AAU has also given an impetus to transform seed production scenario in Assam in fulfilling the requirement of the districts, thereby giving AAU a strong visibility in Assam in terms of supply of quality seed to farmers and showcasing frontline technologies.
- Outreach of the extension system has led to the popularization of Frontline AAU technologies through 1629 OFTs, 7635 trainings and 24385 FLDs including CFLD (during last five years), thereby benefitting through a spectacular yield increase in demonstration.
- Area expansion of major crops has been observed due to impact on knowledge and skill up-gradation of farmers through KVK intervention and providing effective linkages for input and credit delivery system. This has led to bringing self sufficiency in rice and productivity improvement in other field and horticultural crops.
- About 53 percent farmers adopted HYV of rice and the self employment of rural youth has substantially increased through commercial cultivation of vegetables by adoption of more than 50 percent hybrid seeds. Floriculture and banana plantation have already been adopted by many young entrepreneurs
- Due to continuous technological support from AAU, the export of state produced Papaya, Pineapple, Ginger to African and Middle East Countries have become possible.
- The adoption of technology in the state has been 80 % in plant protection, 50 % in varieties, 30 % in INM and fertilizer application, 30% in management practices and 60 % percent in vegetables cultivation.
- The variety and technology have spread from farmers to farmers as evident from despatch of seeds by farmers involved in demonstration.
- Organic farming has started gaining popularity among the rural mass because of premium price and health consciousness leading to increased use of vermicompost, bio fertilizer, IPM, INM technologies by the small and marginal farmers of the state.
- In veterinary sector, the farmers, farm women, educated unemployed youths/entrepreneurs and members of SHGs trained have shown interest for adoption of various technologies like improved goat and pig breeds, artificial insemination, processing and preservation of fodder crops and value addition of paddy straw for the use in lean period /during disaster like flood and drought and vaccination of birds and animals against outbreak of epidemic diseases.
- In fishery sector, fish production in the state substantially increased to the tune of 3.73 lakh MT during 2019-20 with about 21 % growth compared to 2016-17. During

this period, more than 67% growth has been recorded in production of fish seed reaching 9519 million during 2019-20.

- Approximately 50% fish farmers of the state are aware of the scientific fish farming and people have been progressively adopting the scientific fish farming for profitability, reflecting its overall impact through steady upward growth trend in fish production.
- For remarkable effort made under Home Science extension programme such as disposal of waste in compost pit, production of vermicompost, adoption of improved *chulha* and low cost latrine etc. environmental pollution could be controlled to some extent.
- Reduction of drudgery and preservation of nutrients could be made possible from the popularization of drudgery reducing technologies and demonstration on nutrient dense recipes.
- Because of the enhanced income and employment generated through overall adoption of AAU technologies by the farmers, the population below poverty line declined from 39.0 % during 2000-01 to 31.98 % in 2020-21 indicating build up rural economy and improvement social status of people of Assam.

6.6.9.5. International Collaboration: Mention the list of collaboration taken place during last five years with international agencies/universities/institutes for academic, research and others.

Sl. No.	MoU between	From	To	Remarks
1	Assam Agricultural University, Jorhat, Assam and Deepjyoti Dewari, Rajmai, Sivasagar	05.03.2021		---
2	AAU, Jorhat and ICAR-Central Citrus Research Institute (CCRI), Nagpur, Maharashtra	2021		---
3	Material transfer agreement between AAU & UC, DAVIS, USA	2021		---
4	Kristir Kothia, a Socio-Cultural NGO from NER and Assam Agricultural University, Jorhat, Assam	2021		---
5	Assam Agricultural University, Jorhat, Assam and Indian Council of Agricultural Research-CCRI	2021		---
6	National Centre for Disease Control (NCDC) and College of Veterinary Science, Khanapara	2021		---
7	NABARD and Assam Agricultural University, Jorhat, Assam National	2021		---

	Bank for Agriculture and Rural Development.			
8	IRRI, Philippines on Climate Smart Management Practice	2020-21		
9	Govt of Assam and World Bank on Scientific rearing of goat for women empowerment in Dhemaji and Lakhimpur district	2020-21		
10	MOKSHA, an NGO, Panigaon, Itachali, Dist- Nagaon (First Party) and Assam Agricultural University, Jorhat (Second Party)	11.05.2020		---
11	Assam Agricultural University, Jorhat, Assam And Central Agricultural University (CAU)', Imphal	29.09.2015 29.09.2020	28.09.2020	For a period of 5 years and extended another period of 5 years w.e.f. 29.09.2020
12	National Cooperative Development Corporation (NCDC) (1 st Party) and Assam Agricultural University (AAU) (Second Party)	15.10.2020	14.10.2025	For a period of 5 years and extendable automatically for further period of five years unless terminal by either party with a notice in writing at least three (3) months prior to termination.
13	Shodhanga/ Shodhgangotri (INFLI BNET) Centre and Assam Agricultural University, Jorhat, Assam	16.12.2020		---
14	Assam Cricket Association (ACA) and Assam Agricultural University, Jorhat, Assam	13.11.2020		---
15	European Commission on Erasmus Mundus Programme on plant Virology for new Era: Bredind for resistance(Brave)	2019-2022		
16	IRRI, Philippines on Phenotyping of mapping population and donors under normal situation towards development of high-zinc rice of Eastern India.	2019-20		
17	Indian Council of Agricultural Research, New Delhi, India and AINP on Jute b& allied fibers	2019		---
18	National Institute of Agril. Extension Management NFDB & College of Fisheries, AAU, Roha (Nodal Training Institute)	2019		---
19	Assam Agricultural University,			For a period of 5

	Jorhat (First Party) and Edupacked, office of Globalink Research Fellowship, Jorhat (Second Party)	01.02.2019	31.01.2024	years and is subject to revision or modification by mutual written agreement
20	Grijanand Chowdhury Institute of Management and Technology, Azara, Guwahati-17. and Assam Agricultural University, Jorhat	06.05.2019	05.05.2022	For a period of 3 years and may be extended for further period if both GIMT & AAU agree to the terms & condition laid for such extension
21	Assam Agricultural University (AAU), Jorhat (First Party) and Feeds Group of Institutions (FGI), Hengbung B.P.O., Kangpokpi, P.O:- Manipur.	08.07.2019	07.07.2024	For a period of 5 years and its continuance will be subject to review on expiry of agreed period
22	Assam Agricultural University (AAU) and Agriculture Skill Council of India (ASCI)	2018		---
23	Assam Agricultural University, Jorhat, Assam and Department of Biotechnology, New Delhi, Ministry of Science & Technology.	06.11.2018		---
24	Indian Veterinary Research Institute, Deemed University, Izatnagar-U.P. And College of Veterinary Science, Khanapara, Guwahati, Assam Agricultural University, Jorhat, Assam	01.06.2017	31.05.2022	For a period of 5 years and extendable further on mutual consent
25	Indian Council of Agricultural Research (1 st Party) And Assam Agricultural University, Jorhat for opening of CAFT Centre (2 nd Party)	31.03.2017		---
26	Registrar & Associate Dean through Biswanath College of Agriculture, AAU, Jorhat and Secretary, ICAR, New Delhi through the Director, Central Citrus Research Institute, Nagpur, Maharastra	06.03.2017		Lease Deed
27	Assam Agricultural University, Jorhat, First Party and Anand Agricultural University (AAU-Anand), Gujrat, India	11.01.2017	10.01.2022	For a period of 5 years initially but can be extended with the consents of both the

				parties.
28	Assam Agricultural University, Jorhat (First Party) and Institute of Horticulture Technology, Alpha-I, Greater Noida, Uttar Pradesh (Second Party)	15-09-2016	14-09-2046	For a period of 30 years, that can be renewed/reviewed only after the expiry of the lease period
29	Assam Agricultural University, Jorhat, Assam And College of Fisheries Science, Roha, Nagaon	2016		---
30	Assam Agricultural University, Khanapara, Guwahati. and Mothonga Agro Producer Company Ltd., NCL Complex, Bareigaon, Tamulpur, Bksa (BTAD), Assam.	30.08.2016		---
31	Long term agreement entered into with Assam Agricultural University, Jorhat by the Government of India for strengthening of extension Education Institute, Jorhat, Assam	2016		---
32	Assam Agricultural University (AAU), Jorhat and M/s S.D. Bajaj, SDBAGROCHEM, Sikaria Complex, GS Road, Christian Basti, Guwahati-781005	30.08.2016		---
33	DBT -IRRI on QTL to variety: Marker assisted breeding of abiotic stress tolerant rice varieties with major QTLs for drought, submergence and salt tolerance.	2016-17		
34	Norway Institute of Bioeconomy Research, Norway on “Resilience Climate Adaption IND15/0010” Title: Building Climate Resilience of Indian Small- holders through Sustainable Intensification and Agro –ecological Farming Systems to Strengthen Food and Nutrition Security”	2018-19	2020-21	
35	World Bank (Collaborator :IRRI, GoA, CIP, World Veg., Word Fish on Assam Agribusiness and Rural Transformation Project(APART)	2017-18 (continuing)		
36	IRRI-IFAD on Improved Crop Management and Strengthened Seed Supply System for Drought Prone Rain -fed low lands in South Asia	2018-19	2020-21	

37	IRRI-ICAR on Improved Mechanisation in Post-harvest to Reduce Losses and Improve quality	2018-19	2020-21	
38	UN Environment-GEF on Mainstreaming Agricultural Biodiversity Conservation and Utilisation in Agricultural Sectors to Ensure Ecosystem Services and Reduce Vulnerability.	2018-19	2020-21	
39	CSIRO, Ag and Food, on Australia DBT-NECAB, Programme I	2018	2020	
40	CSIRO, Ag and Food, Australia and Bangladesh Agricultural University on ACIAR, Australia	2018	2020	
41	IRRI on Global rice array	2018-19	2020-21	
42	Bill & Melinda Gates Foundation on Stress tolerant rice for the poor farmers of Africa and South East Asia(RARS Titabar)	2008-09	2018-19	
43	Bill & Melinda Gates Foundation Project on Stress Tolerance Rice For Poor farmers in Africa and South Asia (Phase 3) and Eastern India Rainfed Lowland Shuttle Breeding Programme (RARS North Lakhimpur)	2009-10	2018-19	
44	Undertaking by the University and State Government of Assam. Subject:- Admission of students to Lakhimpur College of Veterinary Science, Joyhing, North Lakhimpur under Assam Agricultural University, Jorhat during the academic year, 2014-15	13.11.2015		
45	Assam Agricultural University, Jorhat, Assam And Rupahi College, Nagaon, Assam	2015		
46	Kartina University (Karu) in Kenya And Assam Agricultural University (AAU) in India	07.08.2014		
47	AASRY CONCEOT FOODS, Guwahati And Assam Agricultural University, Jorhat, Assam	2012-13		---
48	Kirkhouse Trust, UK on project “Establishment of Genetic transformation system for pigeonpea (<i>Cajanus cajan</i>) for the deployment	2010-11	2016-17	

	of gene technology including insect protection”			
49	Indian Council of Agricultural Research, New Delhi, India and The College of Agriculture and Life Sciences Cornell University, Ithaca, New York, USA.	22.12.2005		---
50	IRRI, Philippines on Eastern India rain fed lowland shuttle breeding programme	1992	2018	

Collaboration with international agencies/universities/institutes in other aspects:

- In 2016, Memorandum of Understanding was signed with Faculty of Animal Science and Veterinary Science and Fisheries, Agriculture and Forestry University, Rampur, Chitwan Nepal for mutual cooperation and student exchange.
- In 2017, Memorandum of Understanding was signed with Chittagong Veterinary & Animal Sciences University, Chittagong and Faculty of Veterinary Medicine, Sher-e- Bangla Agricultural University, Dhaka, Bangladesh for mutual cooperation and student exchange.
- Dr. Sumita Acharjee, Dept of Agricultural Biotechnology, CA, Jorhat, performed collaborative research work at CSIRO Plant Industry, Australia, from July to December, 2018.
- Assam Agricultural University, Jorhat has strengthened bilateral relationship and developed new collaborative research programme on CRISPR/Cas9 with Washington State University, USA and Dr. S. Singh, Professor, Dept of Agricultural Biotechnology, CA, Jorhat, acted as Visiting Scientist in Washington State University, Pullman USA for three months during 2018
- Assam Agricultural University, Jorhat signed MoU with four institutions of Europe viz., University of Milano and Polytechnic University of Merche, Italy; and Agricultural University of Athens and Academy of Athens for research and education in climate change . Under this AdaptNET project (Erasmus plus programme) 10(ten) scientists from AAU completed one month training in the said four institutions of Europe during January-February, 2020.

6.6.9.6. Fund Raising through CSR: How much fund the university has collected from corporate sector for on- farm research and extension and other related activities in last five years?

Assam Agricultural University has raised fund from corporate sector during the period of 2016-17 to 2020-21. Details of CSR fund collected from different companies and their utilisation in different activities are shown below.

(a) CSR fund utilized for on – farm research

Year	Name of Corporate Sector	Name of the Project	Amount(Rs.)
2017-18	Oil India Ltd.	Augmentation of Agriculture through Efficient Resource Utilisation With Participatory Approach(at AAU,Jorhat)	1.64 crores
2018-19	M/S Ayurved Limited, Solan, Himachal Pradesh	Study on Efficacy of Herbal anthelmintics with or without adjunct liver stimulants in bovine(at LCVSc)	70,000/-
2020-21	Ayurved Pvt. Ltd.	Comparative efficacy of herbal anti-stressor in parturition stress of crossbred cows(at LCVSc)	1,25,000/-
	Ayurved Pvt. Ltd.	Efficacy of Calcium supplement in treatment of milk fever in crossbred dairy cattle(at LCVSc)	1,10,000/-

(b) Details of CSR utilised for Extension activities

Year	Name of Corporate Sector	Extension programmes/activities	Sanctioned amount (Rs.)
2016-17	Numaligarh Refinery Ltd. Golaghat,	Sponsored a skill development training programme on decorative candle making.(College of Community Science)	54,000.00
2016-17	Sathguru Foundation, Hyderabad	Training (Directorate of Extension Education)	10,75,000.00
2017-18	Sathguru Foundation, Hyderabad	Training (Directorate of Extension Education)	5,25,000.00
2017-18	Numaligarh Refinery Ltd.	Exposure Visit (Directorate of Extension Education)	42,500.00
2018-19	BAYERS India Ltd.	Demonstration (Directorate of Extension Education)	5,11,980.00
2018-19	NRL sponsored programme 'Krishikarma'	Demonstration (Directorate of Extension Education)	5,11,980.00
2018-19	Numaligarh Refinery Ltd.	Monitoring of Custom Hiring Centres (Directorate of Extension Education)	3,00,000.00
		Post Flood Contingency measures in Golaghat (Directorate of Extension Education)	3,11,700.00
		Cultivation of Black gram (Directorate of Extension Education)	4,49,000.00

2019-20	BAYERS India Ltd.	Demonstration (Directorate of Extension Education)	3,41,470.00
2019-20	Numaligarh Refinery Ltd.	Monitoring of Custom Hiring Centres (Directorate of Extension Education)	5,31,000.00
		Plantation of Fruit Bearing Trees through Cluster village Model (Directorate of Extension Education)	6,00,000.00
		Rabi Programme (Directorate of Extension Education)	5,11,156.00
2020-21	Assam Gas Company Ltd., Duliajan, Assam	Ankuran: Mechanised farming of potato-maize cropping sequence at Ghurmora & Dibru Chapori (Directorate of Extension Education)	205,49,898 .00 (Total project amount) 5,62,900.00 (Sanctioned to AAU incl. institutional charge of Rs.56,920)
2020-21	Numaligarh Refinery Ltd.	Development of Floriculture Village (Directorate of Extension Education)	2,50,781.00
		Monitoring of Custom Hiring Centres (Directorate of Extension Education)	9,80,000.00
		Restoration of Electricity Supply at KVK Golaghat (Directorate of Extension Education)	2,12,000.00

(c) Details of CSR utilized for other purposes.

Year	Name of Corporate Sector	Purpose	Amount(Rs.)
2017-18	• Kellogs India Pvt Ltd.	Partly sponsored the 49th Annual National Conference of the Nutrition Society of India on the theme “Bio diversity, Traditional food system and wellness : Connecting global priorities” held at Assam Agricultural University during 2nd to 4th November 2017.	Rs. 5 Lakh (Kellogs India Pvt. Ltd.,
	• Marico Ltd..		Rs 7 lakh (Marico Ltd..)

6.6.9.7. Alumni Support: Does the University have the active alumni association. How much fund the Association has raised for the development of the University? What the other areas where the Association is supporting to the University?

Assam Agricultural University has faculty wise active Alumni Association. Besides, the constituent colleges of Assam Agricultural University, namely College of Agriculture, Jorhat; Biswanath College of Agriculture, Biswanath Chariali; College of Community Sciences, Jorhat; College of Fisheries, Raha and College of Veterinary Sciences, Khanapara have their own Alumni organisations. All the Alumni associations of the concerned colleges are actively functioning and organise Alumni meet on a regular basis from time to time for developing policy and strategies through brainstorming for the betterment of the University as well as the agrarian community of Assam. All the Alumni organisations of Assam Agricultural University by raising funds from members, extend their helping hands to the downtrodden people during the period of disaster /natural calamities (like flood and other stresses etc). Some information on different alumni associations are highlighted below

Alumni Association of Faculty of Agriculture (AAFA), AAU

Dated: 03-05-2018

- a. President : Dr. D. N. Dutta, Retd Dean, AAU
- b. Vice President : Dr Arun Pathak, Retd, DR (Agri), AAU
: Dr M. K. Modi, Professor & Head, Agril Biotechnology, AAU
- c. General Secretary : Dr P. Deb Nath, Professor, AAU
- d. Joint Secretary: Mr. Manab Jyoti Das, Khanapara & Dr Bipul Deka, Professor, AAU
- e. Treasurer : Dr Jayanta P. Hazarika, Assoc Prof, AAU
- f. Assistant Treasurer : Dr Nagendra Sarma Barua, Professor, , AAU

Fund Value: 4.40 Lakh (approx) as on 28-04-2021

Alumni Association of the college of Community Science, Jorhat

Alumni Association of the college of Community Science, Jorhat was initiated in the year 1998. Total number of registered alumni is 420 nos. from the year 1973 to 2013. Total amount of fund collected for Alumni Meet which was held on 07.04.2018 is as below:

Registration fees-	: Rs 4,31,000.00
Amount received from outside source-	: Rs 3,30,000.00
Total amount received	: Rs 7,61,000.00
Total amount spent-	: Rs 6,52,076.00
Balance amount-	: Rs 1,08,924.00

A directory was prepared and distribute among the alumni, during Alumni Meet

Alumni Association of the college of fisheries, Raha is currently involved in the following activities

- fighting for re-inclusion of fisheries science subject in Assam Public Service Commission.
- felicitation of meritorious students for their outstanding achievements
- felicitation of faculty members and alumni for their outstanding achievements

6.6.10. Certificate (Application when SSR in submitted for Programmes, Colleges and Agricultural University).

I, the Registrar of the Assam Agricultural University, Jorhat – 785013, Assam, hereby certify that the information contained in the sections 6.4, 6.5 and 6.6.1 to 6.6.9.7 are furnished as per the records available in the University.



Registrar
Assam Agricultural University
Jorhat-13 (Assam)

Date: 14.05.2021

Signature of Registrar with date and seal