

ANNEXURES

of

Self Study Report for ICAR Accreditation



**Kelappaji College of Agricultural
Engineering and Technology**

Tavanur

ANNEXURES

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APPENDIX I-a

**KELAPPAJI COLLEGE OF AGRIL. ENGG. & TECHNOLOGY
KERALA AGRICULTURAL UNIVERSITY
Tavanur – 679 573, Malappuram (Dt.)**

EVALUATION OF COURSE AND COURSE TEACHER BY STUDENTS

(To get feedback from the students regarding the subject knowledge and teaching skills of the course teacher for future improvement and facilitating required inputs and fill up the weakness)

I. General aspects

- a. Degree Programme:
- b. Name of Department:
- c. Course:
- d. Semester, Academic Year:
- e. Course Teacher:

II. About Course / Subject

- a. Provided entire course content Yes No
- b. Suggested Reference of books / Journals / Reading materials if any Yes No
- c. Manual quality Good Average Needs Improvement
- d. Evaluation of manual Regularly One time Never

II. About the teacher

- a. Listens to the student's question / queries Always Sometimes Less response
- b. Support to students to solve problems Always Sometimes Less response
- c. Cooperation with students Excellent Good Average
- d. Stimulation to students to be active learner Excellent Good Average
- e. Creation of good teaching atmosphere Good Average Need Improvement
- f. Planning and distribution of subject Excellent Good Average
- g. Use of ICT and different technology aids Yes Occasionally Not Used
- h. Entire syllabus covered Fully Covered Partially
- i. Classes handled by the course teacher All Some Very Few
- j. Special features / Classes arranged Regular Sometimes Never
- k. Subject knowledge and competence of the Teacher Excellent Good Average
- l. Skill development / training / techniques Provided Excellent Good Average
- m. Punctuality in handling class Good Average Need Improvement
- n. Student Overall Opinion Excellent Good Average

Note:1. Each student of the UG classes is required to give his/her opinion on the points indicated above [by marking] and hand it over to the course teacher on the last theory class of the subject. 2. The above report is to be kept confidential and the student shall not reveal his/her identity.

ANNEXURE I-b

KELAPPAJI COLLEGE OF AGRIL. ENGG. & TECHNOLOGY
KERALA AGRICULTURAL UNIVERSITY
Tavanur – 679 573, Malappuram (Dt.)

FEEDBACK FORM FOR FARMERS

(To get feedback from the farmers regarding the training for
future improvement and facilitating required inputs and fill up the weakness)

Name of the farmer (പേര്) : -----

Address (വിലാസം) : -----

Contact No. (ഫോൺ നമ്പർ) : -----

Name of training attended : -----

(പങ്കെടുത്ത പരിശീലനത്തിന്റെ പേരും വിശദശാഠങ്ങളും)

Date of training (തീയതി) :-----

Remarks (പരിശീലനത്തെ കുറിച്ചുള്ള അഭിപ്രായം) :-----

Signature (ഒപ്പ്) :-----

ANNEXURE I-c

KELAPPAJI COLLEGE OF AGRIL. ENGG. & TECHNOLOGY

KERALA AGRICULTURAL UNIVERSITY

Tavanur – 679 573, Malappuram (Dt.)

FEEDBACK FORM FOR MANUFACTURERS

**(To get feedback from the manufacturers regarding the future improvement
of technology transferred)**

Name of the manufacturer : -----
Address : -----
Contact No. : -----
Name of technology transferred : -----
Date of technology transferred : -----
Remarks : -----
Signature : -----

ANNEXURE II

Credentials of Faculty

Sl. No.	Name of faculty	Highest qualification	Related work experience in the field	Professional licensure and certification	Honors and awards	Documented excellence in teaching	Achievements that contribute to effective teaching and student learning outcomes
Department of Farm Power Machinery Engineering							
1	Dr. Jayan P R	Ph. D.	29 years of experience in teaching and academic research.	1. Four patents were granted: i. Power operated rotary coleus peeling machine ii. Banana sucker uprooting machine as an attachment to tractor iii. Power operated floating paddy harvester. iv. Power operated coconut husking machine. 2. Life member in ISAE, Institution of Engineers and International Journal of	1. Student Projects Award, 2004 (Doctoral level) by the Indian National Academy of Engineering, New Delhi. 2. Appreciation by the District Collector, Thrissur for installation and handing over the pump set at farmer's field at, Thrissur. 3. Distinguished Service Award by ISAE-2020, New Delhi.	1. Six different Technical Bulletins/ Practical Manual/Booklets/palm let/leaflets were published. 2. Twenty research articles were published at International and National Level. 3. Twentythree Popular articles were published. 4. Published six books and a monograph. 5. Technologies included in PoP of crops 2016: i. KAU Kaipad bed former and KAU bed	1. Guided ten B. Tech. projects, ten M Tech projects and four Ph. D. projects. 2. Handled 12 different courses at UG, PG and Ph. D. level. 3. Handled two major research projects. 4. More than 18 farm machines developed. 5. 35 test reports released (FMTC, KCAET, KAU). 6. Eight technologies are transferred for mass multiplication and commercialization. 7. Two Documentaries produced. 8. Attended many national and international trainings.

			Agricultural Engineering. 3. Editor of the Agricultural Engineering Today journal.	former suitable to mini tractor ii. Coleus peeler iii. Goat faecal pellet pulverizer.	
2	Dr. Dhalin D	Ph. D.	1. Three patents received: i. Bicycle Type milking Machine for Dairy Cows (Patent No.: 355171, Govt. of India (January 2021)). ii. Rocker Type Milking Machine for Dairy Cows (Patent No.: 401547, Govt. of India (July 2022)). iii. A rechargeable battery powered backpack type air-assisted electrostatic induction sprayer (Patent no. 471158,	1. Published five books with ISBN. 2. Published 22 research articles. 3. Keynote speaker in the International Webinar on NIPHM (National Institute of Plant Health Management) in July 2020 (Topic: Carbon footprint of sprayers).	1. Guided one B. Tech. project and three M. Tech. projects and two M.Sc projects and three Ph.D (in progress). 2. Handled five courses for UG, PG and Ph. D. students. 3. Attended two international trainings and many national trainings. 4. On Farm Testing (OFT) – ICAR: 6 5. Front Line Demonstrations (FLD) - ICAR: 5 6. Projects implemented: i. Rastriya Sam Vikas Yojana Projects (RSVY): 4 ii. State Horticultural Mission-1 iii. State Planning Board -5 iv. Kerala State Science Technology and Environment, Govt. of Kerala-3

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				Govt. of India (November, 2023)). 2. Senior Member of APCBEES (Asia-Pacific Chemical, Biological, Environmental Engineering Society). 4. Life Member in ISAE 5. Member of the Institution of Engineers (India). 6. Principal Investigator of Annual State Plan Project 2020-21 and 2023-24.			v. State Planning Board -2 (on going)
3	Er. Sindhu Bhaskar	M. Tech.	15-years of experience in teaching and academic research	1. A patent was filed for continuous power operated nutmeg sheller. 2. Principal Investigator of the ICAR scheme AICRP on Farm	1. Krishijwala Puraskaram' for the 'Best Agricultural Engineer by Farmer's Association of India'.	1. Published five research articles in reputed journals	1. Guided ten B. Tech. and three M. Tech. projects 2. Handled 19 different courses at UG, PG and Ph. D. level. 3. Machines and technologies developed:

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				Implements and Machinery. 3. Head of the RF scheme on Farm Machinery Testing Centre.			<ul style="list-style-type: none"> i. Attachment to grade nutmeg seeds to power operated nutmeg sheller. ii. Machine vision system for identifying matured pineapple. iii. Machine vision system for identifying matured black pepper. iv. AI assisted black pepper harvester. v. A suitable cutter header assembly to the amphibian weed harvester towards the development of Pokkali harvester.
4	Er. Sanchu Sukumaran	M. Tech.	Four years of experience in teaching	Life member of ISAE	-	<ul style="list-style-type: none"> 1. Published two research articles in reputed journals. 2. Published a popular article. 	<ul style="list-style-type: none"> 1. Guided three B. Tech. projects 2. Handled five different courses at UG and PG level. 3. Developed two machines. 4. Attended seven trainings.
Department of Processing and Food Engineering							
5	Dr. Prince M V	Ph. D.	29 years of experience in teaching and academic research		Canadian Commonwealth scholarship for pursuing part of the Ph.D research work at University	Published above 10 number of research articles in reputed journals	<ul style="list-style-type: none"> 1. Guided 12 B. Tech. projects and four M. Tech. projects. 2. Handled 18 different subjects in UG, PG and Ph. D. level.

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				of Saskatchewan, Canada		3. Attended National and International training programmes.
6	Dr. Rajesh G K	Ph. D.	14 years of experience in teaching and academic research	1. A patent was granted for “Apparatus for breaking atleast one cocopod”.	Second best centre award of AICRP on PHET during the 38 th Annual Workshop of AICRP on PHET held at ICAR-CPCRI, Kasargod from February 20-23, 2023.	1. Published 20 research articles in NAAS rated journals. 2. Conducted several one-day training programmes on “Entrepreneurship development program on food processing” under Centre of Excellence in Post-Harvest Technology scheme. 3. Life member of AFST, (ISAE) Indian society of Agrl. Engg.
7	Mrs. Sreeja R	M. Sc.	Four years’ experience in research and 10 years’ experience in teaching		1. First Rank in BSc Biochemistry 2. Second Rank in MSc Biochemistry 3. Qualified CSIR JRF. 4. Second best AICRP on PHET award.	1. Handled four subjects in UG level and one subject for M.Tech. 2. Attended training programmes and workshops at national and international levels. 3. Guided 10 B.Tech Project

4. Life member of AFST (I), Society of Biological Chemists, India (SBCCI)

Department of Soil and Water Conservation Engineering

8	Dr. Sathian K K	Ph. D., MBA	31 years of teaching and research experience in KAU	<p>1. Life Member, Institution of Engineers India</p> <p>2. Life Member, Indian Association of Soil and Water Conservationists</p> <p>3. Life Member, Indian society of Agricultural Engineering.</p> <p>4. Currently PI of PFDC and the PI of Revolving Fund Scheme on Geospatial Division</p>	1. 'Palathulli' award of Malayala Manorama.	Published and co-authored more than ten research articles.	<p>1. Guided 10 B. Tech. projects, four M. Tech. projects and two Ph. D. projects.</p> <p>2. Handled eight different courses at UG level and five courses at PG level.</p> <p>3. Handled four Employee Assistance Programs.</p> <p>4. 5. Handled many consultancy projects such as:</p> <p>i. Groundwater recharge to Thazhekkode and Mullurkkara Grama Panchayath.</p> <p>ii. Detailed project report (DPR) on watershed develop interventions to four Block Panchayaths viz. Malappuram, Kondotti, Vandoor and Arekkode Block Panchayath.</p>
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							<p>iii. Prepared the master plan for the modernisation of four Govt owned agricultural farms of Kozhikkode DT in 2018.</p> <p>iv. Prepared the master plan for the modernisation of four Govt owned agricultural farms of Kannur DT in 2019</p> <p>v. Soil Testing as requested by the Executive Engineer (Agri), Alappuzha</p> <p>vi. Prepared the master plan for the modernisation of Regional Poultry Farm, Kozhikkode.</p>
9	Dr. Abdul Hakkim V M	Ph. D.	29 years of teaching, research and extension experience	<p>1. Fellow of Institution of Engineers (India) – FIE.</p> <p>2. Life Member of Indian Society of Agricultural Engineering (ISAE)</p> <p>3. Life Member of Soil and Water Conservation Society.</p> <p>4. Life Member of Energy</p>	<p>1. ‘Best Professor in SWCE Studies’ award in the Agriculture Innovation Congress- 2020.</p> <p>2. ‘Best Faculty Award -2016’ of Indian Academic Researchers Association, Trichy Tamil Nadu.</p>	<p>1. Published 48 research and review articles in reputed journals.</p> <p>2. Published two books with ISBN.</p> <p>3. Published one book in Malayalam</p> <p>4. Published six booklets.</p> <p>5. Published a number of popular articles in the field of Water Management, Soil and</p>	<p>1. Guided sixteen B.Tech. projects, guided nine M. Tech. thesis, and one Ph. D. thesis.</p> <p>2. Guiding one Ph.D. and one M.Tech.</p> <p>3. Handled 13 courses at UG, PG and Ph. D. level.</p> <p>4. Associated with 3 projects as Principal Investigator and six projects as co-investigator.</p> <p>5. Served as the Professor and Head of Agricultural Research Station, Anakkayam for a period of 3 years.</p>

Conservation Society, Kerala.	<p>3. 'Teacher Excellence Award -2015' of Confederation of Education excellence (CEE), New Delhi.</p> <p>4. 'Outstanding Achievement Award' in the field of SWCE on the occasion of International Conference on Advancing Frontiers in Biotechnology for Sustainable Agriculture and Health (AFBSAH-2016).</p> <p>5. 'Best Scientist Award 2015' of the leading monthly Agricultural Magazine "Malarum</p>	<p>Water Conservation and Micro Irrigation.</p> <p>6. serving as external expert in the Board studies of Faculty of Engineering, Dayalbagh Educational Institute (Deemed to be University), Dayalbagh, Agra</p> <p>7. Serving as the member of Academic Council of D.Y. Patil Agriculture & Technical University, Talsande, Kolhapur, Maharashtra.</p> <p>8. Serviced as the external member of Board of Studies of Faculty of Agricultural Engineering of Tamil Nadu Agricultural University, Coimbatore.</p> <p>9. serving as the expert member for the implementation of the RKVY funded project on popularisation at</p>	<p>6. Handled the charge of Principal Investigator, Precision Farming Development Centre (PFDC), an externally aided project funded by National Committee on Plastics for five years.</p> <p>7. Served as the Head of Department of Land and Water Resources and Conservation Engineering (LWRCE) for a period of 8 years.</p> <p>8. Served as the Co-investigation of Multi-Institutional collaborative project of watershed studies in selected districts of Kerala.</p> <p>9. Attended a number of trainings and workshops at national and international level.</p> <p>10. Received a certificate of appreciation from the Hon'ble Vice-chancellor of KAU for designing a lift irrigation system for the University main campus.</p> <p>11. Selected as Scientist-B by Indian Council of Agricultural</p>
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<p>Velanmai” published from Coimbatore, Tamil Nadu, 6. ‘Eminent Scientist Award 2014’ of Bhratha Samskarika Samithi. 7. Best paper award in the National Conference on Water, Environment and Society (NCWES) held at JNTU, Hyderabad.</p>	<p>open precision farming in Kerala implemented by State Horticulture Mission. 10. Serving as the member of Technical Committee for the evaluation of “Hi-tech Plug Tray Nursery” of Vegetable and Fruit Promotion Council, Kerala (VFPCCK) at Nadukkara. 11. Serving as the peer reviewer of the International Journal on “Water and Environment Research”. 12. Serving as the peer reviewer of “Agricultural Research”, Official Publication of the National Academy of Agricultural Science. 13. Serves as the external examiner of Ph.D and M.Tech thesis evaluation of Acharya</p>	<p>Research through Agricultural Research Service Examinations.</p>
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					N.G Ranga Agricultural University, Andhra Pradesh, Tamil Nadu Agricultural University (TNAU), Coimbatore and University of Agricultural Science (UAS), Raichur	
10	Dr. Jinu A.	Ph. D.	12 years of experience in teaching and academic research in KAU, 8 years' experience in extension		Published more than ten research articles in reputed journals	<ol style="list-style-type: none"> 1. Guided five UG projects and four PG thesis. 2. Handled 20 different courses at UG level, PG and Ph. D. level. 3. Serves as Academic officer for UG programmes for the past three years. 4. Attended a number of trainings and workshops at national and international level. 5. Asst. warden (5 years); Associate Patron (2 years); Art club advisor (4 years).

Department of Irrigation and Drainage Engineering

11	Dr Rema K P	Ph. D.	29 years of teaching and academic research	<ol style="list-style-type: none"> 1. Member of Institution of Engineers, India. 2. Member of Indian Association 	<ol style="list-style-type: none"> 1. GATE and NET qualified 2. Best PhD student award 	<ol style="list-style-type: none"> 1. Coauthored nearly 20 research papers in the last ten years. 2. Resource person for Krishi Vigyan Kendra 	<ol style="list-style-type: none"> 1. Guided 14 B. Tech. projects, 13 M. Tech projects and three Ph. D. thesis. 2. Handled 12 different courses in UG, PG and Ph. D. levels.
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<p>of Soil and Water Conservationists (IASWC).</p> <p>3. Life member of ISAE.</p> <p>4. Principal Investigator for one state plan project.</p> <p>5. Coordinator and PI of state plan network project with six centres all over Kerala with a funding of more than 35 Lakhs.</p>	<p>from TNAU in 2012.</p> <p>3. Rekha Nandi and Bhupesh Nandi Prize for the best journal subject paper in series A by the Institution of Engineers, India 2014.</p> <p>4. DR Banyal memorial best paper award, 2019.</p> <p>5. Best research paper award 2022, from Indian Association of Soil and Water Conservation.</p>	<p>and Precision Farming Development Centre.</p> <p>3. External examiner and question paper setter for Soil and Water Engineering courses at UAS, Raichur, TNAU.</p> <p>4. Peer - reviewer of the International Journal of Agriculture Sciences, JTA.</p> <p>5. External examiner for Qualifying examination and Thesis evaluation in IARI, TNAU etc.</p> <p>6. Reviewer for Engineering and Technology Programme (ETP) of KSCSTE</p> <p>7. Young innovators programme-evaluator.</p>	<p>3. Elected Member of Academic Council of KAU</p> <p>4. Convenor of Board of Studies -Active role in syllabus preparation for PG& PhD courses</p> <p>5. Academic Officer of PG since last three years.</p> <p>6. Project Committee Coordinator of the discipline of Soil and Water Engineering and Head of the Department of Irrigation and Drainage Engineering.</p> <p>7. Chairman of Internal Complaint Committee and Student Grievance cell of the college</p> <p>8. Improved the status of laboratories in the Dept. of Irrigation and Drainage Engineering by procuring scientific equipments.</p> <p>9. Acquired certificates for attending national and international trainings on GIS, SWAT, Soil survey and mapping etc.</p>
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12	Dr. Asha Joseph	Ph. D.	24 years of experience in teaching and academic research	<ol style="list-style-type: none"> 1. Member Institution of Engineers, India. 2. Member of Indian Association of Soil and Water Conservationists (IASWC). 3. Life member of ISAE. 	<ol style="list-style-type: none"> 1. Best Paper award of the journal, <i>Int. J. of Farm Sci.</i>, 2021. 2. NET (ICAR) qualified. 	<ol style="list-style-type: none"> 1. Published 15 scholarly articles in NAAS rated journals. 2. Resource personals for KVK and PFDC 3. External examiner and question paper setter of TNAU, Coimbatore. 	<ol style="list-style-type: none"> 1. Guided 15 B. Tech. projects, 11 M. Tech projects and one Ph. D. projects. 2. Handled 12 different courses in UG, PG and Ph. D. levels. 4. Research Coordinator of Faculty of Agricultural Engineering. 5. Strengthened and modernized the Hydraulics lab under the dept. of IDE. 3. Acquired certificates for attending national and international trainings on GIS, SWAT, Soil survey and mapping etc.
13	Dr. Sajeena S	Ph. D.	Six years of experience in research and 19 years of experience in teaching, and extension.	<ol style="list-style-type: none"> 1. Life member of ISAE. 2. Life member of Indian Association of Soil & Water conservation 3. Life member of Indian Society of Remote sensing 	<ol style="list-style-type: none"> 1. Received Best Poster Award from Hon'ble President of India Smt. Prathiba Patil in "Global Conference on Women in Agriculture" held at New Delhi during 13-15 of March 2012. 	<ol style="list-style-type: none"> 1. Published 20 research articles in national and international level reputed journals. 2. Published 25 popular articles. 3. Published four research reports. 4. Published 12 booklets/leaflets. 5. Conducted 12 Radio Talks and Interviews. 	<ol style="list-style-type: none"> 1. Guided six B. Tech./B.Sc. projects, six M. Tech projects and one Ph. D. project. 2. Handled 33 different subjects for UG, PG and Ph. D. students. 3. Attended 16 training programmes at national and international level. 4. Attended 11 (National/International) conferences.

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			4. Life member of Institution of Engineers.	2. Secured First Rank of 1996 Admission of M. Tech (Soil and Water Engineering).	6. Vocational training programmes conducted (4 nos.) for women 7. Trainings programmes conducted (190 nos.) for farmers, rural youth, women and extension functionaries 8. Handled classes for different subjects as resource person (55 Nos.).	5. Front Line Demonstrations – 24 Nos. (220 trials) 6. On Farm Trials. – 13 Nos. (60 trials).	
14	Dr. Anu Varughese	Ph. D.	Eight years of experience in research and 15 years of experience in teaching and academic research.	1. Member of Institution of Engineers, India. 2. Life member of ISAE. 3. Life member of Energy Conservation Society, Kerala.	1. Best paper award ‘Sadhana Best Paper Award-2020- <i>Int. J. of Farm Sci.</i> 2. GATE and NET qualified. 3. Best research paper award of ISAE, New Delhi for the year 2022 for the best research paper in <i>Journal of Agrl. Engg.</i>	1. Published five book chapters. 2. Published 19 research articles in peer reviewed journals. 3. Published 12 research articles (full papers) in National/ International conferences. 3. External question paper setting for ANGRAU- B. Tech. (Agrl. Engg.) for the course ‘Water Harvesting and Soil Conservation Measures’.	1. Guided 10 B. Tech. projects and six M. Tech. projects. 2. Handled 18 different subjects in UG, PG and Ph. D. level. 3. Attended many National and International training programmes.

						4. External question paper setting -University of Calicut-BVoc. Programme in Agriculture.	
Department of Basic Engineering and Applied Sciences							
15	Dr. Josephina Paul	MCA, Ph.D.	20 years of teaching experience	MCSA MCP Life member of Computer Society of ISRS India, Member of IEEE	1.Second rank in M Sc 2.DAAD Fellowship for three months at Germany	1. Published 12 research articles in reputed journals. 2. Attended many Faculty Development programmes.	1. Handled 12 different courses at UG, PG level. 2. Advisory committee member of 10 students of PG (M.Tech) and one Ph.D.
16	Mr. Venu Vaisakh	M. Sc.	8 years of experience (KAU-2 years and Christ College of Engineering -6 years)			1. Published 7 research article	1. Handled 6 different courses at UG level and 2 courses at PG level in KAU 2. Handled 6 different courses at UG level at Christ College of Engineering. 3. Advisory committee member of 3 Ph.D. student and one M.Tech student.

ANNEXURE III

Details of research publications

The research publications in reputed journals (NAAS rating above 5) by the faculty of the institution in the last 5 years (2019-2023) is given below.

1. DEPARTMENT OF FARM POWER MACHINERY ENGINEERING

Sl. No.	National/ International	Title of publication in JTA format	NAAS Rating
1	International	Khatawkar, D. S., James, S. P. and Dhalin, D. 2021. Role of electrostatics in artificial pollination and future agriculture. <i>Current Science</i> . 120 (3): 484-491.	7.17
2	International	Lukose, R., Dhalin, D. Khatawkar, D. S., Seena, R., Subhagan, Jayan, P. R. and Shivaji, K. P. 2022. Effect of Electrostatic Force on Mechanical Pollination in Green House Crops. <i>Agricultural Mechanization in Asia, Africa and Latin America</i> . 53 (2): 5205-5218.	6.29
3	International	Lukose, R., Dhalin, D. Khatawkar, D. S., Jayan, P. R., Vidhu, K. P., Seena, R. and Subhagan. 2021. Electrostatic Pollen Collector for Tomato Under Greenhouse Condition. <i>Agricultural Mechanization in Asia, Africa and Latin America</i> . 51 (1): 1079-1092.	6.29
4	International	Arya, K. T., Harsha, V., Amal, J. D. and Jayan, P. R. 2021. Performance Evaluation of KAU Manure Pulverizer. <i>Agricultural Mechanization in Asia, Africa and Latin America</i> . 52(4): 49-52.	6.29
5	National	Chakravarthi, N. L. K. and Jayan, P. R. 2022. Investigation on Biometric and Engineering Properties of Tapioca. <i>Indian J. of Ecol</i> . 49(3): 1220-1224.	5.79
6	International	Ratinavel, S., Manoj Mathew, and Jayan, P. R. 2021. Investigation on Mechanized Harvesting Requirements of Pokkali Paddy for Optimizing Harvester Design. <i>Eco. Environ. and Cons</i> . 28(3): 1571-1575.	5.41
7	International	Mohan, S. S., Babu, P. and Jayan, P. R. 2023. Economic analysis of tractor-powered manure pulverizer cum applicator over traditional manure application practices. <i>Agric. Sci. Digest - A Res. Journal</i> . 43(3): 390-395.	5.52

8	International	Srinivas, J., Jayan, P. R. and Chakravarthi, N. L. 2023. Study of soil and crop parameters of coconut orchard for design of tractor-operated coconut basin lister cum fertilizer applicator. <i>Int. J. Plant & Soil Sci.</i> 35(11): 9-15.	5.07
9	International	Mohan, S. S. and Jayan, P. R. 2023. Study of manure properties for the development of FYM basal applicators. <i>Agric. Sci. Digest.</i> 43(3): 390-395.	5.52
10	International	Babu, T. M. and Preman, P. S. 2023. Physical Properties of Ginger Based on Different Varieties. <i>International Journal of Environment and Climate Change.</i> 13(11): 2180-2190.	5.13
11	National	Mahesh, T. and Preman P. S. 2023. Optimization of operating parameters under laboratory conditions for a sensor-based tractor drawn ginger rhizome planter. <i>The Pharma Innovation J.</i> 12 (12): 637- 645.	5.23

2. DEPARTMENT OF PROCESSING AND FOOD ENGINEERING

Sl. No.	National/ International	Title of publication in JTA format	NAAS Rating
12	International	Meena, N., Prince M. V., and Sreeja R. 2022. Optimization of process parameters for ultrasound assisted osmotic dehydration of pineapple slices using RSM. <i>J. of Food Processing and Preservation.</i> 46(9): e16507.	13.1
13	International	Nandhulal, A. M., Prince, M. V., Anjaneyalu, K., Pandiselvam, R., Rohit, T., Naveen, K. M., and Sreeja, R. 2021. Pulsed electric field combined with microwave assisted extraction of pectin polysaccharide from jack fruit waste. <i>Innovative Food Science and Emerging Technologies.</i> 74: 102844.	15.34
14	International	Anjaly, M. G., Prince, M.V., Aswin, S.W., Nandhulal, A. M., Naveen, K. M., Pandiselvam, R., Rohit, T., Sreeja, R., Alexander, V. R., Monica, T., and Anjaneyalu, K. 2022. Design considerations and modelling studies of ultrasound and ultraviolet combined approach for shelf-life enhancement of pineapple juice. <i>Ultrasonics sonochemistry.</i> 90: 106166.	8.61

15	National	Srikanth, V., Rajesh, G. K., and Anjineyulu, K. 2019. Physico-chemical and Microbial changes in Cocoa Beans during Different Methods of Fermentation. <i>Indian J. Ecol.</i> 46 (7): 154-159.	5.79
16	International	Srikanth, V., Rajesh, G. K., and Sudheer, K. P. 2020. Modeling and Optimization of developed cocoa bean extractor parameters using Box Jenkin design and artificial neural network. <i>Computers and Electronics in Agriculture.</i> 177: 105715.	12.76
17	International	Alfiya, P. V., Rajesh, G. K., Murali, S., Aniesrani Delfiya, D. S., Samuel, M. P., and Prince, M. V. 2022. Development and evaluation of hot air-assisted microwave dryer for shrimp. <i>J. Food Processing and Preservation.</i> 46 (11): 17112.	8.61
18	International	Alfiya, P. V., Rajesh G. K., Murali, S., Aniesrani Delfiya, D. S., and Samuel, M. P. 2022. Quality evaluation of solar and microwave dried shrimps – a comparative study on renewable and dielectric heating methods. <i>Solar energy.</i> 246: 234-244.	13.19
19	National	Athira, K., Rajesh, G. K., Sagarika, N., and Anjaly, M. G. 2022. Development and Optimization of Process Variables of Protein Enriched Rice Based RTE Food Products. <i>Indian J. of Ecology.</i> 49(6): 2336-2342.	5.79
20	National	Babu, P. and Rajesh, G. K. 2021. Application of Fuzzy Logic for Sensory Evaluation of Pretreated Vacuum Fried Carrot Chips. <i>Indian J. Ecology.</i> 48(5): 1509-1514.	5.79
21	International	Babu, P., Rajesh, G. K., Jinukala Srinivas, Mohan, S. S., and Sudheer, K. P. 2023. Economic Analysis of Value-Added Product Vacuum Fried Carrot Chips. <i>Econ. Affairs.</i> 68(03): 01- 05.	5.08
22	International	Praveena, N., Surya, R. Fairroosa, K. Rajesh, G. K., George, Anusha and Tasneem, S. A. 2023. Development and Quality Evaluation of Vacuum Fried Jackfruit (<i>Artocarpus heterophyllus</i>) Chips. <i>Asian J. Dairy Food Res.</i> 43(1): 116-123.	5.75
23	International	Shahama, K., Anjaly, M. G., Rajesh, G. K., Sneha, M., Sanjay, P., Palakkeel, A., Narayanan, A., Suresh, A., and	5.13

		Nasrin, J. 2023. Development and Performance Evaluation of a Cocoa Bean Sheller cum Winnower. <i>Int. J. Environ. Climate Change</i> . 13(4): 56–63	
24	International	Fathima, K. S., Misha, M. R., Keerthana, E., Shimi, W. U., Shahama, K., Anjaly, M. G., Santhi Mary Mathew and Rajesh, G. K. 2023. Development of a User-friendly Tool for Pulp Separation from Palmyrah Palm Fruit. <i>Int. J. Bio-resource Stress Manag.</i> 14(1): 215-219.	5.11
25	International	Alfiya, P. V., Rajesh, G. K., Murali, S., Delfiya, D. S. A., Samuel, M. P., Prince, M. V., and Sudheer, K. P. 2023. Process optimization for drying of Shrimp (<i>Metapenaeus dobsoni</i>) under hot air-assisted microwave drying technology using response surface methodology. <i>J. Food Process Eng.</i> 46(1-3).	5.13
26	International	Navya, K. P., Sudheer, K. P., Abdullah, S., Vithu, P., Pathrose, B., and Rajesh, G. K. 2024. Effect of aqueous ozone treatment on the reduction of chlorpyrifos and physicochemical and microbial qualities of cucumber (<i>Cucumis sativus L.</i>): Process modeling and optimization. <i>J. Food Process Eng.</i> 47(3): 1-13.	8.89

3. DEPARTMENT OF SOIL AND WATER CONSERVATION ENGINEERING

Sl. No.	National/ International	Title of publication in JTA format	NAAS Rating
27	National	Sharma, N., Hakkim, A. V. M., and Singh, A. K. 2021. Development and field evaluation of a low-cost automated drip irrigation system. <i>J. of Soil and Water Conservation</i> . 20(2): 188-194.	5.28
28	International	Pasha, M. M. and Sathian K. K. 2022. Comparison of open source DEMs for morphometric analysis of micro watersheds. <i>Int. J. of Plant and soil Science</i> . 33(22): 267-281.	5.07
29	International	Pasha, M. M., and Sathian K. K. 2021. Characterization of prioritization of micro watersheds using geospatial techniques. <i>Int. J. of Environ. and Climate Change</i> . 11(8): 68-81.	5.13
30	International	Jyothi, N., and Sathian, K. K. 2021. Laboratory calibration of capacitance-based soil moisture sensor to monitor sub	5.07

		surface soil movement in laterite soil. <i>Int. J. of Plant and soil Science</i> . 33(17): 137-147.	
31	International	Bowlekar, A. P., Sathian, K. K., and Vaisakh V. 2023. Rainfall Versus Water Balance Components Using R Software: A Case Study on a Micro-watershed in the Midlands of Kerala. <i>Journal of Experimental Agriculture International</i> . 45(10): 355-366.	5.14
32	National	Anjaly, C. Sunny, Sathian K. K., Anu Varughese, and Jinu, A. 2023. Assessment and mapping of water quality of a shallow aquifer near an industrial belt using hydro chemical parameters and water quality index. <i>J. Agric. Eng.</i> 60(1): 60-73.	5.85
33	International	Bhat, A. G., Jinu, A., and Sathian, K. K. 2021. Development of Small Scale Indoor Hydroponic Fodder Production System. <i>Int. J. Environ. and Climate Change</i> . 11(7): 47-51	5.14
34	International	Deepthi S. N., Jinu, A. and Sathian, K. K. 2021. Effect of aging of Cladding Material on Crop Yield under Greenhouse Cultivation. <i>Int. J. Environ. and Climate Change</i> . 11(9): 60-66.	5.14
35	International	Saji, A. Hussain, G. Patidar, Diveena, A. S., Jinu, A., and A. Wilson. 2022. Standardization of irrigation and fertigation requirement for snake gourd under rain shelter. <i>Int. J. of Environ. and Climate Change</i> . 12(5): 57-65.	5.14
36	International	Nandini, J., Jinu, A., and Sathian, K. K. 2023. An IoT based automated nutrient management in vertical hydroponics. <i>The Pharma Innovation J</i> . 12(1): 1954-1957.	5.23

4. DEPARTMENT OF IRRIGATION AND DRAINAGE ENGINEERING

Sl. No.	National/ International	Title of publication in JTA format	NAAS Rating
37	International	Gilsha Bai, E. B., Rema, K. P., Sajeena, S., and Sasikala, D. 2020. Simulation of groundwater flow using visual MODFLOW: A case study for the command area of Chalakudy river diversion scheme. <i>Indian J. of Soil Conservation</i> . 50(1): 29-37	5.28

38	International	Padikkal, S. Rema K. P., and Gopi, G. 2020. Frequented Extreme Climatic Events in Kerala Evolving Sustainable Management Paradigm. <i>J. Indian Soc. Coastal Agric. Res-Special Issue- Climate Change and Coastal Agriculture</i> . 38(2): 140-146.	5.17
39	International	Gudidha, G. and Rema, K. P. 2021. Calibration and Validation of HEC-HMS Model for Chalakudy River basin. <i>Int. J. of Environ. and Climate Change</i> . 11(5): 91-104.	5.13
40	International	Aiswarya, L., Rema, K. P., Shyla, J., Brijesh, V. K. and Vaisakh Venu. 2023. Landslide Susceptibility Mapping of Chaliyar River Basin by Multivariate Statistical Model. <i>Journal of Experimental Agriculture International</i> . 45(12): 3-35.	5.14
41	International	Gladis, R., Asha Rani, G. V., Rema K. P., Rani, B., Biju Joseph and Rehana, M. R. 2023. Evaluating Soil Erosion within the Neyyar Basin in Kerala through RUSLE and Geospatial Analysis. <i>Int. J. Environ. Climate Change</i> . 13(11): 2759-2771.	5.13
42	National	Gilsha Bai, E.B., Rema, K. P., Asha Joseph, and Sathian, K. K. 2023. Water Delivery Performance of Canal Irrigation: A Case Study of Chalakudy River Diversion Scheme. <i>J. of Agric. Eng.</i> 60(1): 74-85.	5.85
43	International	Akhina, P., Rema K. P., Anu Varughese, Divya Vijayan, and Asha Joseph. 2024. Modelling Soil Erosion Using RUSLE and GIS for Kadalundi River Basin in Kerala, India. <i>Int. J. Environ. Climate Change</i> . 14(2): 652-667.	5.11
44	International	Aiswarya, L., Rema, K. P., and Asha, J. 2023. Performance of qualitative and quantitative models in creating landslide susceptibility map of Chaliyar river basin. <i>Int. J. Environ. and Clim. Change</i> . 13(10): 1860-1875.	5.13
45	International	Nchumbeni M. Odyuo, and Rema, K. P. 2020. Impact of Land Use Land Cover Changes on Runoff Processes of Chalakudy Basin. <i>Int. J. Curr. Microbiol. App. Sci.</i> 9(11): 3731-3742. doi: https://doi.org/10.20546/ijcmas.2020.911.447 .	5.38

46	International	Bhat, A. G., Vinayak Paradkar, Aishwarya M. S., Pragya Balley, and Rema K. P. 2023. Geospatial Analysis of Kurumanpuzha Sub Watershed in the Chaliyar River Basin: A Remote Sensing and GIS Approach for Geomorphological Assessment. <i>Journal of Experimental Agriculture International</i> . 45(11): 9-21.	5.14
47	International	Gilsha Bai, E. B., Ardra Raju, Rema, K. P., Sumiya, K. V., Anu Varughese, and Resmi, J. 2024. Assessment of Soil Erosion within the Gayathripuzha River Basin Using RUSLE Model and GIS Tools. <i>Journal of Experimental Agriculture International</i> . 14(4): 780-794.	5.14
48	International	Riyola George and Asha Joseph. 2020. Flood Frequency Analysis of a Sub-watershed in Meenachil River Basin Using Gumbels Extreme Value Distribution. <i>Int. J. Curr. Microbiol. App. Sci</i> . 9(06): 3746-3752. doi: https://doi.org/10.20546/ijcmas.2020.906.442	5.38
49	International	Chithra M. R., Joseph, A., Mithra S. J. and Varughese, A. 2022. Mapping, inventory and change detection of wetlands of Tavanur Grama Panchayath using multispectral satellite imagery. <i>Int. J. of Environ. and Climate Change</i> . 12(11): 33-50.	5.13
50	International	George, R. and Joseph, A. 2022. Application of Hydrologic Engineering Centers Hydrologic Modeling System (HEC-HMS) Model for modelling flood in sub basin of Meenachil River, Kerala, India. <i>Int. J. of Environ. and Climate Change</i> . 12(12): 1251-1262.	5.13
51	International	Nair, P.G. and Joseph, A. 2023. Creation of Geospatial Database and Estimation of Irrigation Water Requirement of a Canal Command in Gayathri Irrigation Project, Kerala. <i>Int. J. of Environ. and Climate Change</i> . 13(8): 182-196.	5.13
52	International	Assainar, R. K. K, Joseph, A., and Sajeena, S. 2023. Trend analysis of groundwater levels in Kalpathypuzha sub-basin of Bharathapuzha, Kerala, India. <i>Int. J. of Environ. and Climate Change</i> . 13(9): 1145-1157.	5.13
53	National	Sajeena, S. and Kurien, E. K. 2019. Studies on groundwater resources using visual MODFLOW - A case	5.28

		study of Kadalundi river basin, Malappuram, Kerala. <i>Indian J. Soil Conservation</i> . 47(1): 21-29.	
54	International	Sajeena, S., Swathy, P. S., and Hakkim, A. V. M. 2022. Prediction of the extent of saline water advancement in the coastal stretch of Kadalundi river basin, Malappuram district, Kerala using visual MODFLOW: A case study. <i>The Pharma Innovation J.</i> 11(3): 365 - 372.	5.23
55	International	Subhasree, G. K., Sajeena, S., Prasanthi, K., and Hakkim, A. V. M. 2022. Spatial Variability Mapping of Soil Chemical Properties Using GIS & GPS. <i>Int. J. Environ. and Climate Change</i> . 12(12): 512-520.	5.13
56	International	Khamarunneesa, M., Sajeena, S., Hakkim, A.V. M., and Prashanth, K. 2023. Field Evaluation of Site -Specific Drip Fertigation in Tomato. <i>Int. J. of Environ. and Climate Change</i> . 13(7): 351-362.	5.13
57	National	Sajeena, S., Smegha, N. C., and Hakkim, A. V. M. 2023. Effect of Bakkikayam regulator on groundwater resources using visual MODFLOW - A case study. <i>Indian Journal of Soil Conservation</i> . 51(2): 110-116.	5.28
58	National	Sajeena, S., Namitha, M.R., Aparna, Haripriya, S., Manchima, S. L., and Megha, P. P. 2023. Geophysical Techniques for Aquifer Characteristic Studies - A Case Study of Tavanur Grama Panchayat, Malappuram, Kerala. <i>J. Indian Soc. Coastal Agric. Res.</i> 41(2): 142669	5.17
59	National	Varughese, A. and Hajilal, M. S. 2020. Impact of Climate Change on the Hydrology of Bharathappuzha River in Kerala, India. <i>Climate Change and Environ. Sustainability</i> . 8(2): 181-190. DOI: 10.5958/2320-642X.2020.00018.6	5.28
60	International	Varughese, A. and Hajilal, M. S. 2022. Trends in Streamflow in Relation to Water Retention Structures: A Case Study in Bharathapuzha River Basin, India. <i>Int. J. of Environ. and Climate Change</i> . 12(5): 84-96.	5.13
61	National	Ameena, P. O. H., Varughese, A., Gilsha Bai, E. B., and Sajeena, S. 2022. Assessment of Salt Water Intrusion from Ponnani to Tavanur along the Banks of River Bharathapuzha in Kerala. <i>J. of the Indian Society of Coastal Agri. Res.</i> 40(2): 33-47.	5.17

DOI: <https://doi.org/10.54894/JISCAR.40.2.2022.128473>

62	International	Prabhakar, M., Sasikala D, and Varughese, A. 2022. Assessment of Recharge in Shallow Groundwater Aquifers Using Soil and Water Assessment Tool: A Case Study of the Thuthapuzha Subbasin. <i>Int. J. of Environ. and Climate Change</i> . 12(8): 102-112.	5.13
63	International	Hasna Ameena P.O., Varughese, A., Gilsha Bai E. B., and Rema, K. P. 2023. Assessment of saline water intrusion in a coastal region of Kerala, India. <i>Environ. Engineering and Management J.</i> 22(3): 607-618. DOI: http://doi.org/10.30638/eemj.2023.031 .	6.86
64	International	Fousiya, and Anu Varughese. 2023. Impact Analysis of Conservation Structures and Climate Change on Streamflow of Thuthapuzha Watershed, Kerala. <i>Int. J. Environ. Climate Change</i> . 13(3): 243-256.	5.11
65	International	Gopika P. D., Gayathri M. T., Suraj K., Anusree K., Anu V., and Namitha M. R. 2024. Assessment of carbon neutrality and sustainability of KCAET campus in Kerala, India. <i>Int. J. Bio-resource and Stress Manag.</i> 15(2): 01-10.	5.23
66	International	Sairam, N. H., and Anu V. Assessing the suitability of CFSR data for SWAT model hydrologic simulation of Kunthipuzha river basin, Kerala, India. <i>Mausam</i> . 75(2):407-414.	6.60

5. DEPARTMENT OF BASIC ENGINEERING AND APPLIED SCIENCES

Sl. No.	National/ International	Title of publication in JTA format	NAAS Rating
67	International	Revathi, N., Dixita Gourshetty, Haritha, V., Noorbina R., Arsha S., Sankar M, Ashitha T., Aveen R., Humbare Mrunalini Dinkar and Vaisakh Venu. 2023. From historical data to future predictions: Analysing and forecasting oilseed yield trends in India using time series methods. <i>The Pharma Innovation J.</i> 12(12S): 1145-1157.	5.23

ANNEXURE IV

Details of Participation of faculty in National/International Seminars/ Symposia/ Workshops/Training/ Consultancy visits

The details of participation of faculty in National/International Seminars/ Symposia/ Workshops/Training/ Consultancy visits etc. in the last 5 years (2019-2023) is given below.

Details of participation of faculty in National/International Seminars/ Symposia/ Workshops/Training/ Consultancy visits

Sl. No.	Name of Faculty	Symposia/ Workshop attended	Location	Date
1	Dr. Jayan P. R.	55 th Annual Convention of Indian Society of Agricultural Engineers	Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar	23-11-2021 to 25-11-2021
		ISAE 56 th Annual Convention at TNAU Coimbatore	TNAU, Coimbatore	09-11-2022 to 11-11-2022
2	Dr. Abdul Hakkim V. M.	National Workshop on Plant Protect Techniques	NIPHM, Hyderabad	06-03-2019 to 07-03-2019
		Agriculture Innovation Congress	Taj Lands' End, Mumbai	12-02-2020
		3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University.	25-05-2023 to 27-05-2023
3	Dr. Josephina Paul	FDP Training Programme on 3D printing and Design	MES Engg. College, Kuttippuram	02-12-2019 to 06-12-2019
		Shaastra Workshop on Python Algorithms for Robotics	IIT, Madras	28-02-2021
		8th IEEE WIECON-Electrical and Computer Engg. 2022	Naya Raipur, India	30-12-2021 to 31-12-2021
		Training Programme on Advances in Mobile Application Development (Online mode)	ICAR-NAARM, Hyderabad	20-02-2023 to 24-02-2023
		3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University.	25-05-2023 to 27-05-2023

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4 Dr. Sajeena S.	National Workshop on Plant Protect Techniques	NIPHM, Hyderabad	06-03-2019 to 07-03-2019
	NRDMS - DST Summer School on Geospatial Technologies - 21 days	NIT, Calicut	10-06-2019 to 30-06-2019
	III Indian National Groundwater Conference on Groundwater Resources Management for sustainable development: Special emphasis on coastal and urban environment	CWRDM, Kozhikode, Kerala	18-02-2020 to 20-02-2020
	Documentation and Writing Skills for Extension Functionaries	Online Collaborative Training Programme of EEI with MANAGE, Hyderabad	05-07-2021 to 09-02-2021
	Data Analysis using R software	Kerala Agricultural University	21-06-2022 to 25-06-2022
	3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University.	25-05-2023 to 27-05-2023
5 Mr. Vaisakh Venu	Two week -AICTE sponsored Faculty Development Programme (FDP) on Computer Algebra Systems	Vidya Academy of Science Technology, Thrissur, Kerala	30-12-2019 to 11-01-2020
	One Week -STTP on Recent trends in Research Methodology	RSRI (REST Society for Research International)	25-05-2020 to 29-05-2020
	21 days-UGC sponsored induction program	University of Kerala	28-02-2022 to 29-03-2022
	3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University	25-05-2023 to 27-05-2023
	One Week-HRD training programme - "Foundation course on Research,	Kerala Agricultural University	21-11-2022 to 26-11-2022

SELF STUDY REPORT FOR ACCREDITATION - 2024

	Education and Extension Management"		
6 Dr. Asha Joseph	Software applications in water resources management	Jointly organised by SIST Chennai, NIT, Calicut and ISRS	16-11-2020 to 21-11-2020
	Water resources modelling	CAAST- CSAWM, MPKV, Rahuri	8-02-2021 to 12-02-2021
	International Conference on Sustainable water management and ecosystem Restoration	Jointly organised by SIST Chennai, NIT, Calicut and KITS, Coimbatore	23-06-2021 to 24-06-2021
	Training on rainfall data analysis using different packages of R-software	KSCSTE-CWRDM, Kozhikode	12-07-2022 to 22-07-2022
	Workshop on 'Advance statistical data analysis using SPSS'	Science Tech Institute, Lucknow	21-09-2021 to 27-09-2021
	Software Applications in Water and Environmental Engineering	SIST, Chennai in association with NIT, Calicut	15-02-2023 to 22-02-2023
	HRD training programme for the middle level Scientists of KAU (Batch-2)	CTI, Mannuthy, KAU	08-03-2023 to 09-03-2023
	Irrigation systems and advancements	NIPHM, Hyderabad	11-07-2023 to 13-07-2023
7 Dr. Anu Varughese	21 days training NRDMS - DST Summer School on Geospatial Technologies - 21 days	NIT, Calicut	10-06-2019 to 30-06-2019
	21 days training on Watershed Hydrological Modelling	CAAST- CSAWM, MPKV, Rahuri	17-05-2021 to 06-06-21
	5 days training on Soil survey and Land use planning using Remote sensing and GIS	ICAR-National Bureau of Soil Survey and Land Use	27-09-2021 to 01-10-2021

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		Planning, Amravati Road, Nagpur	
	5 days training on Automation in micro irrigation system	Department of Soil & Water Conservation Engineering, College of Agricultural Engineering & Technology, JAU, Junagadh	09-01-2021 to 13-01-2021
	5 days training on MIKE-Software	CWRDM, Kozhikode	20-12-2021 to 24-12-2021
	5 days training on Water resources modelling	CAAST- CSAWM, MPKV, Rahuri	08-02-2021 to 12-02-2021
	National seminar on Agro meteorological Interventions for enhancing farmers income	KAU, Vellanikkara, Thrissur	20-01-2022 to 22-01-2022
	International conference on Innovative Agricultural Engineering and Food Technology	Sri Shakthi Institute of Engg. and Technology, Coimbatore	23-12-2020 to 24-02-2020
8	Dr. Rajesh G. K.	35 th annual workshop of AICRP on PHET	JNKVV, Jabalpur, Madhya Pradesh 23-01-2020 to 25-01-2020
		36 th annual workshop of AICRP on PHET	Online virtual platform 03-02-2021 to 05-02-2021
		37 th annual workshop of AICRP on PHET	Online virtual platform 27-01-2022 to 29-01-2022
		Short courses on 'Novel Processing and Value Addition Technologies for Augmenting Entrepreneurial Opportunities in Tuber Crops'	ICAR- CTCRI, Sreekaryam 15-02-2022 to 24-02-2022
		38 th annual workshop of AICRP on PHET	ICAR- CPCRI, Kasaragod 20-02-2023 to 22-02-2023
		3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University. 25-05-2023 to 27-05-2023

SELF STUDY REPORT FOR ACCREDITATION - 2024

9	Dr. Rema K. P.	Software Applications in Water and Environmental Engineering	SIST, Chennai in association with NIT, Calicut	15-02-2023 to 22-02-2023
		Software applications in water resources management	Jointly organised by SIST Chennai, Calicut and ISRS	16-11-2020 to 21-11-2020
		International Conference on Sustainable water management and ecosystem Restoration	Jointly organised by SIST Chennai, Calicut and KITS	23-06-2021 to 24-06-2021
		International conference on Water source sustainability	IIT, Roorkey and IWRS, Roorkey	18-06-2021 to 20-06-2021
		HRD training programme for the middle level Scientists of KAU (Batch-2)	CTI, Mannuthy, KAU	08-03-2023 to 09-03-2023
10	Mrs. Sreeja R.	36 th annual workshop of AICRP on PHET	Online virtual Platform	03-02-2021 to 05-02-2021
		37 th annual workshop of AICRP on PHET	Online virtual platform	27-01-2022 to 29-01-2022
		Applications of sophisticated Analytical Instruments	CFTRI, Mysore	09-01-2023 to 13-03-2023
		38 th annual workshop of AICRP on PHET	ICAR- CPCRI Kasaragod	20-02-2023 to 22-02-2023
		3 days- Training programme on 'Design and Delivery of e-Learning'	Kerala Agricultural University.	25-05-2023 to 27-05-2023
11	Er. Sanchu Sukumaran	One Week Orientation course for the Programme Officers of the National Service Scheme	University of Calicut	06-12-2019 to 12-12-2019
		AICTE Sponsored -FDP on students' induction	AICTE- Ammini College of Engineering, Palakkad	14-06-2019 to 16-06-2019
		One Week-HRD training programme - "Foundation course on Research, Education and Extension Management"	Kerala Agricultural University.	13-01-2020 to 18-01-2020

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		21 days winter school training of application of sensors, Instrumentation, AI and ML in Precision Agriculture	ICAR-CIAE, Bhopal	14-02-2020 to 05-03-2020
		AICTE sponsored 5 days Online FDP on " Internet of Things (IoT)"	AICTE- Group of Institutions, Hyderabad	Anurag 15-12-2020 to 19-12-2020
		AICTE sponsored 5 days Online FDP on "Robotics"	AICTE - Academy of Science and Technology	Vidya 11-01-2021 to 15-01-2021
		AICTE sponsored 5 days Online FDP on " Product Design"	AICTE-College of Engineering, Trivandrum	04-01-2021 to 08-01-2021
12	Er. Sindhu Bhaskar	34 th annual workshop of AICRP on FIM	CCSHAU, Hisar	04-12-2019 to 06-12-2019
		Farm Machinery Demonstration Mela 'Farm Mech 2020' organised by AICRP on FIM, KAU, Tavanur Centre	KCAET, Tavanur	14-02-2020
		Training Programme on "Farm Equipment for Plant Health Management" and national workshop on Farm Mechanization for small and marginal farmers	NIPHM, Hyderabad	02-03-2020 to 04-03-2020
		Webshop on Challenges Posed by COVID-19 Pandemic on Production Mechanization Systems and Way Forward	Online mode	08-06-2020
		Web based Workshop on Impact of COVID-19 on Agricultural Machinery Manufacturing Sector in India: Present Challenges and Future Strategies	Online mode	10-06-2020
		symposium on availability of agricultural machinery to	Online mode	03-07-2020

challenge the post pandemic period

Mid-term review of AICRP on FIM	Online mode	29-10-2020
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35 th Annual Workshop of AICRP on FIM conducted by ICAR	Online mode	23-02-2021 to 25-02-2021
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Technology Meet 2021”, organized ICAR and Kerala Agricultural University	KVK, Malappuram	23-03-2021 to 25-03-2021
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Challenges of Intellectual property Rights (IPR) for Innovations in Agricultural Machinery in India	Online mode	06-08-2021
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Krishi Drone Mahotsav	Online mode	13-12-2021
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Webinar on Standard Operating Procedure (SOP) for use of Drone Application for Pesticide and crop nutrients spray in agricultural, forestry, non-cropped areas etc.	Online mode	21-12-2021
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Winter School on "Recent Advances in Electronic Devices, Artificial Intelligence and Machine Learning for Precision Agriculture"	Online mode	01-02-2022 to 21-02-2022
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36 th Workshop of AICRP on FIM	Online mode	22-02-2022 to 24-02-2022
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Technology Meet 2022”, organized ICAR and Kerala Agricultural University	KVK, Malappuram	28-02-2022 to 04-03-2022
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Farm Machinery Demonstration Mela 'Farm Mech 2022' organised by AICRP on FIM, KAU, Tavanur Centre	KCAET, Tavanur	17-03-2022 to 18-03-2022
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Karshikamela conducted by Mathrubhumi daily	Palakkad	07-10-2022 to 11-10-2022
Block level seminar on Agricultural Mechanisation by ATMA, Palakkad	Chittur, Palakkad	24-12-2022
37 th Workshop of AICRP on FIM	OUAT, Bhubaneswar	19-01-2023 to 21-01-2023
Farm Machinery Demonstration Mela 'Farm Mech-2023' organised by AICRP on FIM, KAU, Tavanur Centre	KCAET, Tavanur	12-02-2023 to 15-02-2023

ANNEXURE V

Details of In-Plant Training

Details of In-Plant Training

Year	Industry / institute name	Date	Number of students
2019	NRFMTTI, Hisar, Haryana	02.09.2019 to 27.09.2019	49
	Central soil salinity research institute- ICAR, Karnal, Haryana	01.08.2019 to 28.08.2019	10
	ICAR- IISR cochin	04.11.2019 to 12.11.2019	10
		18.11.2019 to 30.11.2019	12
	IWDM-K , Chadayamangalam	02.12.2019 to 04.12.2019	49
	Soil survey and soil conservation department	05.12.2019 to 13.12.2019	49
	ICAR- CIFT	13.11.2019 to 30.11.2019	10
	Ground water department	16.12.2019 to 21.12.2019	49
	Muthugreen Irrigation (NETAFIM), Kozhinjapara	01.08.2019 to 27.08.2019	49
	ICAR - CPCRI, Kasaragod	04.11.2019 to 16.11.2019	12
		18.11.2019 to 30.11.2019	12
	KVASU Mannuthy	04.11.2019 to 16.11.2019	12
		18.11.2019 to 30.11.2019	12
	Indian Institute of Packaging	04.11.2019 to 30.11.2019	2
Indian Institute of Food Processing Technology	04.11.2019 to 30.11.2019	13	

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	Mother's Agro Foods (P) Ltd, Angamaly	04.11.2019 to 16.11.2019	13
	ICAR- CTCRI Sreekaryam	01.04.2019 to 08.04.2019	11
	ICAR- CTCRI Sreekaryam	10.04.2019 to 20.04.2019	11
	ICAR- CTCRI Sreekaryam	22.04.2019 to 30.04.2019	11
2020	Hatsun Agro Product Ltd, chennai	20.02.2020 to 20.05.2020	6
	ICAR-CIFT, Cochin	20.01.2020 to 15.02.2020	28
	ITC ltd- ICML puthukottai, Trichy	20.02.2020 to 20.05.2020	2
	Grund water department	15.04.21 to 25.04.2021	42
	Kerala Irrigation Infrastructure development cooperation ltd	04.04.2021 to 14.04.2021	21
	SRFMTTI, Garladinne, AP	15.03.2021 to 05.04.2021	42
	Department of Agricultural development and farmers welfare	01.09.2021 to 15.09.2021	47
2021	Institute for watershed development management, Kollam Kerala	16.09.2021 to 21.09.2021	47
	CRFMTTI, Budhni	11.10.2021 to 05.11.2021	47
	CPCRI, Kasaragod	01.10.2021 to 10.10.2021 12.11.2021 to 24.11.2021	47
	Pavizham Rice mill, Perumbavoor	01.10.2021 to 10.10.2021 12.11.2021 to 24.11.2021	47
	Noble Industries	01.04.2021 to 30.04.2021	4

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	Pavizham Rice mill, Perumbavoor	17.05.2021 to 30.05.2021	42
		01.04.2021 to 30.04.2021	3
	Raidco	01.05.2021 to 31.05.2021	3
	Grund water department	15.12.2021 to 29.12.2021	47
	NIPHM,Hydrabad	08.11.2021 to 11.11.2021	47
	M/S Wayanad coffee and spices	01.05.2021 to 31.05.2021	1
		01.04.2021 to 30.04.2021	4
	Mother's Agro Food Product ltd	01.05.2021 to 30.05.2021	4
	Kerala Irrigation Infrastructure development cooperation ltd	03.01.2022 to 10.01.2022	47
	Central Region Farm Machinery Training and Testing Institute, Budhni	05.09.2022 to 30.09.2022	49
	District offices- department of ground water	06.10.2022 to 15.10.2022	49
		18.10.2022 to 29.10.2022	
2022	CWRDM, Kozhikode	06.10.2022 to 15.10.2022	25
		18.10.2022 to 29.10.2022	24
		01.08.2022 to 06.08.2022	
	ICAR-CIFT, Cochin	09.08.2022 to 19.08.2022	49
		22.08.2022 to 29.08.2022	
		01.08.2022 to 06.08.2022	
	ICAR- CPCRI, Kasaragod	09.08.2022 to 19.08.2022	49
		22.08.2022 to 29.08.2022	

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	Tierra Food India, Enadimangalam	10.08.2022 to 19.08.2022	16
		01.08.2022 to 06.08.2022	17
	ICAR- CTCRI Sreekaryam	10.08.2022 to 19.08.2022	17
	ICAR- CPCRI, Kasaragod	01.05.2023 to 15.05.2023	10
	ICAR-IISR, Kozhikode	01.05.2023 to 15.05.2023	7
	ICAR-CIFT, Cochin	03.10.2023 to 07.10.2023	17
	ICAR- CTCRI Sreekaryam	03-10-2023 to 07-10-2023	17
	Mother's Agro Foods (P) Ltd, Angamaly	09-10-2023 to 13-10-2023	17
	ICAR-CPCRI, Kasaragod	13-11-2023 to 18-11-2023	17
	ICAR- CPCRI, Kasaragod	09-10-2023 to 13-10-2023	17
2023	KVASU Mannuthy	13-11-2023 to 18-11-2023	17
	ICAR-CPCRI, Kasaragod	03-10-2023 to 07-10-2023	16
	KVASU Mannuthy	09-10-2023 to 13-10-2023	16
	ICAR-CIFT, Cochin	13-11-2023 to 18-11-2023	16
	NABATI(ENERLIFE INDIA PVT LTD), CHENNAI	01-02-2023 to 30-04-2023	4
	Elanadu Milk Pvt.Ltd, Thrissur	01-02-2023 to 31-03-2023	3
	Artocarpus food Pvt.Ltd, Kannur	01-04-2023-30-04-2023	3
	MILMA ercmpu Ltd, Thripunithura	23-01-2023 to 15-05-2023	1

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Mane Kancor Ingredients Pvt. Ltd, Angamali	01-02-2023 to 15-05-2023	1
FEBIN MARINE FOODS, Alappuzha	01-02-2023 to 28-02-2023	7
United Breweries Ltd, Palakkad	01-03-2023 to 31-03-2023	3
Crust 'N' Crumb food ingredients Pvt Ltd,Muvattupuzha	01-04-2023 to 30-04-2023	3
Parisons, Kakkanchery	01-04-2023 to 30-04-2023	4
Britannia Industries Ltd, Tamilnadu	01-02-2023 to 30-03-2023	3
ITC Ltd,Foods, Mysore	01-02-2023 to 30-04-2023	2
Crust 'N' Crumb food ingredients Pvt Ltd, Muvattupuzha	01-05-2023 to 15-05-2023	1
ITC ICML, Trichy	01-02-2023 to 30-04-2023	2
BELL foods, Kochi	01-05-2023 to 15-05-2023	2

ANNEXURE VI

Training programmes and personality development sessions organised by the placement cell and students' union of the college

Sl. No.	Details of the Programme	Firm/Organisation	Date
1	Career Guidance Programme	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.), Kozhikode.	06-04-2019
2	Career Guidance Programme	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.), Kozhikode.	29-11-2019
3	Future is Golden-Career Orientation Workshop Speaker: Mr. Saurabh K.Pandey, CEO-ISAB & SKILL Advisory.	Imperial school of Agribusiness (ISAB), Greater Noida, Uttar Pradesh.	18.01-2020
4	Webinar on “Post Covid-19 opportunities in Food Processing sector” Speaker: Dr. Sudheer K. P., Associate Director of Research, HOD of Agrl. Engg., Centre of Excellence in Post-Harvest Technology, KAU.	Students, Union 2019-2020 in association with Placement cell, KCAET, Tavanur	03-06-2020
5	Webinar on “Sustainable Groundwater Futures” Speaker: Dr. Sreekanth J., Senior Scientist in CSIRO, KCAET Alumnus.	Students, Union 2019-2020 in association with Placement cell, KCAET, Tavanur	12-06-2020
6	Webinar on “Enabling Skills for mastering the interview” Speaker: Dr. Habeeburrahman P. V., Former Proessor and Head, KVK, Malappuram.	Students, Union 2019-2020 in association with Placement cell, KCAET, Tavanur	14-06-2020
7	Online Webinar on “Introduction to Agricultural Engineering and Food Technology-Scope-Opportunities-Future” Chief guest:	Students, Union 2019-2020 in association with Placement cell, KCAET, Tavanur. Video link: http://fb.watch/1BUN7-CQLz/	23-06-2020

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	<p>Adv. V. S. Sunilkumar, Hon. Minister of Agriculture Speakers: Dr. Sathian K. K., Dean and Patron, KCAET, Tavanur. Dr. Jayan P. R., Professor and HOD, Dept. of FMPE, KCAET, Tavanur.</p>		
8	Free Summer Camp	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.), Perinthalmanna.	26-04-2022
9	Live Seminar on “Careers in Management after Graduation in Agriculture and Allied Sciences” Speaker: Mr. Aslam Ummat, Career Educator, T.I.M.E., Perinthalmanna.	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.), Kozhikode.	14-06-2022
10	Interview workshop and mock interview training for students	Triumphant Institute of Management Education Pvt. Ltd. (T.I.M.E.), Kozhikode.	11-01-2023
11	Online training on the scope of MBA Agri Business Management Speaker: Dr. Chetna Narendra Mehta, Associate Professor of Management & Start - Up Coordinator-MoE’s Innovation Cell (MIC), Pune.	Placement cell in association with MIT World Peace University, Pune	13-01-2023
12	Orientation program for students in connection with Young Innovator’s Programme (YIP).	Placement cell, KCAET, Tavanur	20-06-2023
13	Training for the interview of “Assistant Engineer in MGNREA” Speaker: Er. Amal Dev KCAET Alumnus.	Placement cell, KCAET, Tavanur. Google meet link: https://meet.google.com/yck-waqa-bue	11-10-2023

ANNEXURE VII

Equipment / materials which are purchased, under different project heads, for the benefit of student projects

Sl. No.	Equipment/Materials purchased	Project head	Amount (Rs.)
Department of Farm Machinery and Power Engineering			
1	HR sheet	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	9,340
2	Research materials	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	13,216
3	Research materials	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	14,868
4	Research materials	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	14,679
5	Basin frame assembly	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	13,377
6	Research materials	Sub-Centre of Excellence in Agrl. Mech. ESR&D 253-31-2166-214	6,122
7	Research materials	Annual PLAN Project 2022-23 “Network Project on Augmenting Small-scale Mechanization in Kerala” 253-31-20632-214	14,826
8	PCB programmable board, Motor	Sub-Centre of Excellence in Agrl. Mech. ESR&D 253-31-2166-214	14,750

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9	Research materials	Sub-Centre of Excellence in Agrl. Mech. ESR&D 253-31-2166-214	12,534
10	Driver	Sub-Centre of Excellence in Agrl. Mech. ESR&D 253-31-2166-214	14,868
Department of Processing and Food Engineering			
1	Ultrasonic bath cum chiller	State Plan Project 2019-2020	89,900
2	Abbe refractometer	State Plan Project 2020-2021	46,700
3	Fibre estimation system	State Plan Project 2020-2021	1,49,940
4	Spectrophotometer	State Plan Project 2021-2022	1,76,400
5	Glass distillation unit	State Plan Project 2021-2022	41,685
6	Fruit pressure tester	Centre of Excellence on Post-harvest technology 2019-2020	22,000
7	Continues Sealer gas Machine	Centre of Excellence on Post-harvest technology 2019-2020	36,010
8	Image Processing Equipment	Centre of Excellence on Post-harvest technology 2020-2021	2,99,775
9	Vernier Calipper	Centre of Excellence on Post-harvest technology 2020-2021	2,950
10	Sealing Machine	Centre of Excellence on Post-harvest technology 2020-2021	1,650
11	Coconut Disintegrator	Centre of Excellence on Post-harvest technology 2020-2021	22,800
12	Hydraulic F ilter Press	Centre of Excellence on Post-harvest technology 2020-2021	52,000
13	Automatic Induction Foil Sealing Machine	Centre of Excellence on Post-harvest technology 2021-2022	1,35,700

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14	Deep Fryer	Centre of Excellence on Post-harvest technology 2021-2022	4,960
15	Air Fryer	Centre of Excellence on Post-harvest technology 2021-2022	8,490
16	Hegman Gauges	Centre of Excellence on Post-harvest technology 2021-2022	6,962
17	Cream separator	Centre of Excellence on Post-harvest technology 2021-2022	15,572
18	Hafele Die cast kitchen Machine	Centre of Excellence on Post-harvest technology 2021-2022	32,118
19	Air Blast Frezer	ICAR- AICRP on PHET 2019-2020	2,18,295
20	Micro Filtration Apparatus	ICAR- AICRP on PHET 2019-2020	3,15,000
21	Cocoa Beans Roaster	ICAR- AICRP on PHET 2019-2020	1,30,000
22	Cocoa Nib Grinder	ICAR- AICRP on PHET 2019-2020	1,90,000
23	Copra Dryer	ICAR- AICRP on PHET 2019-2020	36,325
24	Electric Roaster	ICAR- AICRP on PHET 2020-2021	84,000
25	Evaporator	ICAR- AICRP on PHET 2020-2021	1,20,750
26	Double stage mill	ICAR- AICRP on PHET 2020-2021	1,50,070
27	Steamer	ICAR- AICRP on PHET 2020-2021	1,10,900
28	Ozon generator Analyzer	ICAR- AICRP on PHET 2020-2021	3,59,100
29	pH meter	ICAR- AICRP on PHET 2021-2022	18,795
30	Specific gravity Separator	ICAR- AICRP on PHET 2021-2022	2,41,500

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31	Magnetic Stirrer & plate	ICAR- AICRP on PHET 2021-2022	9,261
32	Tensile Testing Machine	ICAR- AICRP on PHET 2021-2022	99,000
33	Microwave Dryer	ICAR- AICRP on PHET 2021-2022	3,99,000
34	Porosity Apparatus	ICAR- AICRP on PHET 2021-2022	21,655
35	Co-efficient of friction Apparatus	ICAR- AICRP on PHET 2021-2022	27,448
36	Angle of Repose (empty method)	ICAR- AICRP on PHET 2021-2022	19,446
37	Angle of Repose (Filling method)	ICAR- AICRP on PHET 2021-2022	17,766
38	Cocoa Butter Extractor	ICAR- AICRP on PHET 2021-2022	2,03,500
39	Heat and Pump Dryer	ICAR- AICRP on PHET 2021-2022	3,93,750
40	Cocoa Conching cum Tempering machine	ICAR- AICRP on PHET 2022-2023	2,24,176
41	Clarifier	ICAR- AICRP on PHET 2022-2023	1,86,000
42	Ice cream churner	ICAR- AICRP on PHET 2022-2023	1,65,000
43	Grain hardness tester	ICAR- AICRP on PHET 2022-2023	25,590
44	Terminal velocity apparatus	ICAR- AICRP on PHET 2022-2023	73,051
45	Microwave oven, Hand mixer, Refrigerator, Gas stove, Mixer grinder	Revolving fund of the Food Technology programme 2019-20	49,840
46	Instrumentation lab Strain guage, loadcell etc	Revolving fund of the Food Technology programme 2019-20	31,050
47	Water bath	Revolving fund of the Food Technology programme	9,900

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		2019-20	
48	Spectro-colorimeter	Revolving fund of the Food Technology programme 2022-2023	3,77,600
49	Box Compression tester	Revolving fund of the Food Technology programme 2022-2023	3,77,300
50	Package drop tester	Revolving fund of the Food Technology programme 2022-2023	1,43,080
51	Dart impart tester	Revolving fund of the Food Technology programme 2022-2023	1,19,560
52	Package vacuum leak tester	Revolving fund of the Food Technology programme 2022-2023	1,75,420
53	Heat seal tester	Revolving fund of the Food Technology programme 2022-2023	1,22,500
54	Food processing equipment (Chappathi maker)	Development grant 2021-2022	3,98,550
Department of Soil and Water Conservation Engineering			
1	Sediment sampler	State plan project- 253-24-20550-420	15,600
2	Soil map of Chaliyar river basin and Kurumanpuzha sub watershed from Kerala State Land Use Board	State plan project- 253-24-20550-420	3,865
3	Land use shapefile for Chaliyar river basin from KSLUB	State plan project- 253-24-20550-420	26,249
4	Watershed boundary map from KSLUB	State plan project- 253-24-20550-420	1,571
5	GI sheet	State plan project- 253-24-20550-420	14,700
6	Rainfall data from IDRB (2001-2021year)	State plan project- 253-31-20910-214	8,663
7	Soil map of Kadalundi river basin from Director of Soil survey	State plan project- 253-31-20910-214	3,630

	and soil conservation, Trivandrum		
8	GI pipe (16 gauge, 3 inch diameter)	State plan project- 253-24- 20550-420	10,000
9	Materials for the fabrication of Erosion pins	State plan project- 253-24- 20550-420	7,000
10	Materials for the fabrication of Erosion pins	State plan project- 253-24- 20550-420	4,268
11	Hand held GPS	State plan project- 253-24- 20550-420	22,420
12	Water quality analyser	Station wise funding- strengthening the irrigation engineering lab	13,126
13	Electronic water level device	Station wise funding- strengthening the irrigation engineering lab	49,875
14	Time Domain Reflector (TDR)	Station wise funding- strengthening the irrigation engineering lab	1,48,921

