

PUBLICATIONS (2015-16)

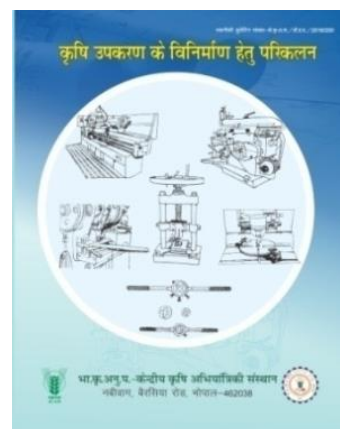
Books

1. Senthilkumar T, Balakrishnan M and Karhika J. 2015. *Agricultural Engineering (Tamil) - A Diploma Agriculture Book text book series*. Laser Park Publishing House, Coimbatore. ISBN no. 978-93-84234-34-8.
2. Tripathi MK and Giri SK. 2015. *Probiotic Foods: Technology, safety and human health*. Jaya Publishing House, New Delhi. ISBN: 978-93-84337-31-5. Total Pages: 456

“कृषि उपकरण के विनिर्माण हेतु परिकलन” – कृषि यंत्र निर्माताओं, उद्यमियों हेतु तकनीकी पुस्तिका

इस 410 पृष्ठीय परिकलन में, कृषि यंत्रों का विनिर्माण करने वाले उद्यमी और कारीगर, विभिन्न विनिर्माण तकनीकियों को सीखकर उन्नत कृषि यंत्रों का निर्माण कर सकते हैं। इस पुस्तिका को मार्ग दर्शक के रूप में अपने पास रखें व समय पर उपयोग में लायें।

इस परिकलन में यंत्रों के निर्माण में उपयोग होने वाले पदार्थों, उनके गुणों तथा गुणों के सुधार के अलावा मापन संबंधी उपकरण एवं जानकारियां जैसे ड्राईंग तथा ड्राईंग उपकरण, मापनी और माप लेने वाले औजार, मार्किंग और मार्किंग टूल्स, लिमिट, फिट एवं टॉलरेन्स, हेन्ड टूल्स, शीट मेटल एवं कटिंग टूल्स, धातु, धातु ढलाई, धातु सन्धिकरण, मशीनिंग, प्रेस कार्य, फोर्जिंग, जिंस और फिक्सचर्स, एन. सी. व सी. एन. सी. मशीन, मानक कलपुर्जे – फास्टनर्स, उष्मा उपचार, असेम्बली एवं तकनीकें, सरफेस फिनिशिंग, मशीनों की स्थापना एवं मेन्टिनेंस, निर्माण इकाई की आर्थिक विवेचना, कृषि यंत्रों के पुर्जों के विनिर्माण व धातुई सुधार आदि के बारे में जानकारी दी गई है।



Book Chapter

Rao KVR. 2016. *Protected cultivation technologies for high value vegetable production*. In: *Entrepreneurship Development through High Value Vegetable Crops in Modified Shadenet House*. Edited by Gupta et al., PDKV/Pub/435/2016.12-18.

Papers published in Referred journals

1. Agrahar-Murugkar D, Gulati P, Kotwaliwale N, Gupta C, Chakraborty SK and Aiman. 2015. Optimization of nutritionally rich instant porridge with sprouted legumes, malted millets and papaya and its comparison with conventional porridge in terms of textural, rheological and particle size properties. *International Journal of Food and Nutritional Sciences* 4(1):49-58
2. Ambrose DCP, Annamalai SJK, Naik R. 2014 Influence of fluidized bed drying on the quality and storage of *Murraya koenigii* leaves. *Journal of Applied Horticulture* 16 (3): 222-224
3. Chandra P, Agrahar-Murugkar D and Gandhi AP. 2015. Physico-chemical characteristics of some soybean varieties grown in India. *Annals of Plant and Soil Research* 17 (Special Issue): 84 – 87
4. Mehta CR, Tewari VK. 2015. Biomechanical model to predict loads on lumbar vertebra of a tractor operator. *International Journal of Industrial Ergonomics* 47: 104-116
5. Nair R, Mehta CR, Sharma S. 2015. Carbon sequestration in soils-A Review. *Agricultural Review* 36(2):81-99.
6. Saxena CK, Gupta SK, Purohit RC, Bhakar SR. 2015. Salt water dynamics under point source of drip irrigation-A review. *Indian Journal of Agricultural Research* 19(2): 101-113.
7. Singh D, Saha KP, Manoj Kumar, Joshy CG and Mondal DP. 2015. Optimization of wear rate of agricultural grade boron steel using response surface regression. *Agricultural Mechanization in Asia, Africa and Latin America*, Vol. 46(2): 88

8. Singh K, Mehta CR. 2015. Decision support system for estimating operating costs and breakeven units of farm machinery. *Agricultural Mechanisation in Asia, America and Latin America* (AMA), 46(1):35-42
9. Singh UM, Yadav D, Tripathi MK, Seikh W and Yadav MK. 2014. Modified method of DNA isolation and optimization of PCR protocol for RAPD analysis of endangered medicinal plant *Nardostachys jatamansi* D C. *Octa. J. Biosci* 2(2): 115-118
10. Ambalkar PP, Shakya BR, Bargale PC and Tamhankar MB. 2015. Status of Pelleting Technology for Integrated Aquaculture and Livestock Feed. *J of Agricultural Engineering Today*. 39 (3): 41-46.
11. Ambrose DCP, Muthamil Selvan and Annamalai SJK. 2013. Techno-economic feasibility of Agro Processing Centre on custom hiring of primary processing equipment for turmeric by rural youth group. *Madras Agricultural Journal*. 101 (4-6) : 163-166.
12. Arvind Kumar, Mandal S, Singh RK and Tamhankar MB. 2015. Comparative performance of puddlers in low lands of hilly areas. *Indian Journal of Hill Farming*. 28(1): 63-68.
13. Chandel NS, Tewari VK, Mehta CR and Patil MB. 2015. A decision support system for design of transmission system of low power tractors. *Computer Applications in Engineering Education*. 23 (5): 760-770.
14. Dhakad SS, Rao KVR and Mishra KP. 2015. Effect of mole drainage technology on root and physiological parameters of soybean in temporary waterlogged vertisols of Madhya Pradesh. *International Journal of Agricultural and Statistical Sciences*. 11(1) : 167-173.
15. Gangil S. 2015. Positive transformations in intrinsic bioconstituents due to briquetting of soybean crop residues. *Energy for Sustainable Development*. 27 : 112-119.
16. Kiruthika V, Naik R, Ambrose DCP and Annamalai SJK. 2015. Equipments for production of value added products from banana central core. *Uzhavarin vallarum velanmai*. 7 (1): 55-58.(in Tamil)
17. Kute A, Mohapatra D, BhushanaBabu V and Sawant BP. Optimization of microwave assisted extraction of pectin from orange peel under response surface methodology. 2015. *Journal of Food Research and Technology*. 3 : 62-70.
18. Mishra G, Joshi DC, Mohapatra D and Bhushana Babu V. 2015. Varietal influence on the microwave popping characteristics of sorghum. *Journal of Cereal Science*. 65 : 19-24.
19. Muthamil Selvan, Thankamani C K, Annamalai SJK and Jayashree E. 2015. Design and development of power operated continuous run potting machine for seedling nursery. *The Indian journal of Agricultural Sciences*. 85 (5):817-820.
20. Nandede BM and Raheman H. 2015. Multi storage metering mechanism for transplanting of vegetable seedlings in paper pots. *Journal of Institute of Engineers*. DOI: 10.1007/s40030-015-0130-2.
21. Saha KP, Singh D, Agrawal KN and Bhushana Babu V. 2015. Reduction of spray losses to soil in soybean (*Glycine Max L.*) through optimization of operational parameters. *Scientific Journal of Agricultural Engineering*. 40 (2): 19-28.
22. Tiwari PS, Pandey MM, Gite LP and Shrivastava AK. 2015. Effect of saddle height and crank length on physiological and psychophysical responses of Indian agricultural worker during pedalling. *Journal of Agricultural Engineering*. 52 (2): 1-7.
23. Ambrose DCP, Annamalai SJK and Naik R. 2015. Effect of packaging in extending shelf life of curry leaves. *Journal of Applied Horticulture*. 17 (2): 165-168.
24. Guru PK, Tiwari PS, Tiwari KB, Shrivastava A, Naik RK and Nare B. 2015. Generation of database for development of a control system for precision seed drill. *Agricultural Engineering: CIGR Journal*. 17 (3): 242-247.
25. Muthamilselvan M, Annamalai SJK, Ravindran CS and Sheriff JT. 2015. Development of power- weeder for mound cassava in hilly terrain. *Indian Journal of Agricultural Sciences*. 85 (9): 1125-1248.
26. Naik R, Annamalai SJK, Nair NV and Prasad R. 2015. Mechanization package for chipping and planting of sugarcane bud chips grown in pro trays for sustainable sugarcane initiative in India. *Agricultural Mechanization in Asia, Africa and Latin America*. 46 (4): 14-21.
27. Nandede BM and Raheman H. 2015. Multistage metering mechanism for transplanting of vegetable seedlings in paper pots. *Journal of Institute of Engineers, India*. 96 (4): 295-300.
28. Tripathi MK, Mangaraj S, Manoj Kumar, Sinha LK, Giri SK and Ali N. 2015. Effect of processing condition on the quality and beany flavour of soymilk. *Current Science*. 109 (6): 1164-1171.

29. Ambalkar PP, Bargale PC, Saha KP and Shakya BR. 2015. Decision support system for techno-economic viability analysis of livestock cum aqua pellet feed plant. *International Journal of Tropical Agriculture*. 33 (4): 3041-3047.
30. Ambalkar PP, Bargale PC, Saha KP and Shakya BR. 2015. Decision support system (DSS) for techno-economic viability analysis of livestock cum aqua pellet feed plant. *International Journal of Tropical Agriculture*. 33 (4): 3041-3047. ISSN: 0254-8755.
31. Kumar M and Thakur TC. 2016. Field evaluation of deep soil volume loosener-cum-fertilizer applicator for management of sugarcane ratoon crop. *Agricultural Mechanization in Asia, Africa and Latin America*. 47 (1): 51-55.
32. Kumar Manoj, Dubey AK, Dubey UC, Bargale PC and Ahmad Tauqueer. 2016. *Quantification* of agricultural mechanization for soybean-wheat cropping pattern in Bhopal region of India. *Agricultural Mechanization in Asia, Africa and Latin America*. 47 (1): 28.
33. Mooventhan P, Manimaran A, Senthil Kumar R, Sakthivel Selvan A and Arul Prakash M. 2016. Indigenous ethno veterinary medicinal practices for management of mastitis in dairy cattle. *Indian Journal of Animal Research*. 50 (1): 136-138.
34. Nandede BM, Raheman H. 2016. Digital seedling counter for detection of seedling flow and spacing in vegetable transplanter: a low cost solution. *International Journal of Engineering Research and Management Technology*. 3 (1): 22-29.
35. Parameswara, Naik J, Senthil Kumar R. 2015. Exploratory factor analysis in perceptual understanding of livestock rearers towards climate variability in Karnataka. *International Journal of Agriculture Sciences*. 7 (14): 871-874.
36. Rao KVR, Bajpai A, Gangwar S, Chourasia L and Soni K. 2016. Maximizing water productivity of wheat crop by adopting drip irrigation system. *Research on Crops*. 17(1): 163-168.
37. Singh KP, Agrawal KN, Jat D, Manish Kumar, Kushwaha HL, Shrivastava P and Tripathi H. 2016. Design, development and evaluation of furrow opener for differential depth fertilizer application. *Indian Journal of Agricultural Sciences*. 86(2): 250-255.
38. Singh KP, Poddar RR, Agrawal, Hota S and Singh MK. 2015. Development and evaluation of multi millet thresher. *Journal of Applied and Natural Science*. 7 (2): 939-948.
39. Singh KP, Poddar RR, Agrawal KN, Hota S and Singh MK. 2015. Development and evaluation of multi millet thresher. *Journal of Applied and Natural Science*. 7 (2): 939-948.

Popular articles

1. Chakraborty S, Parihar MS and Chakraborty SK. 2015. Santra prasanskanan. *Krishak Jagat*, 69(21): 12
2. Chakraborty S, Parihar MS, Nayak MP and Chakraborty SK. 2015 Tudaai baad sabji bhandar an kaise karein. *Krishak Jagat* 69(28): 6
3. Khadatkar A, Mehta CR, Gite LP and Narwariya BS. 2014. Hearing loss in tractor drivers of central India. *Popular Kheti* 2(4): 200-202
4. Khadatkar A, Potdar RR, Wakudkar H and Narwariya BS, 2014. Gender Friendly Tools and Equipment for Land Preparation and Sowing Operation in Indian Agriculture. *Popular Kheti* 2(4): 133-134
5. Khadatkar A, Potdar RR, Wakudkar H and Narwariya BS, 2014. Gender Friendly Technology for Intercultural Operation Used in Indian Agriculture. *Popular Kheti* 2(4): 135-136.
6. Kulkarni SD. 2015. Food ingredients: role and importance in food processing. *Udyog Prerna*. 10(2): 5-6, 11-12 & 14.
7. Saha KP, Singh D and Bhushanababu. 2015. Kheton mein kachare se taapmaan mein vruddhi ki roktham: Krishi apshist ke vaikalpik upyog. *Krishak Jagat* pp:6

8. Khadatkar A, Potdar RR, Narwariya BS, Wakudkar H and Saini N. 2015. An ergonomic evaluation of paddy harvesting with farm women. *Bharatiya Krishi Anusandhan Patrika*. 30 (1): 40-43.
9. Nandede BM, Singh D and Roul AK. 2015. *Kisano ke liye vardan tractor chalet poudh ropai yantra*. I. June 16-31:Pg 9.
10. Annamalai SJK, Senthilkumar T and Naik R. 2015. Package of equipment for sugarcane bud chip technology (Tamil). *Uzavarin Valarum Velanmai*. 7 (3): 37-40.
11. Vishwanthan MPR, Sundar R, Prasanth N, Naik R, Annamalai SJK. 2015. New Technology for rapid treatment of sugarcane planting material. *SBI News*. ISSN 0973-8170. 35 (3): 3-5.
12. Singh PL, Jena PC, Giri SK, Golap BS, Kushwah OP. 2015. *Gramin ilakon me phalonwasajbjiyonkeliyesaur chalet cold storage*. *KrishakDoot*. 24: 7 & 12.
13. Tripathi MK. 2015. Soybean not a cash crop but nutritional and health crop. *Times of Biodiversity Magazine*. 4 : 28-32.
14. Tripathi MK and Giri SK. 2015. Probiotic soy yogurt and health potential. *Probiotic Newsletter*. 9 : 6.
15. Tripathi MK and Giri SK. 2015. Probiotic soymilk powder and health potential. *Scientific India*. Sept-Oct. Pg 28-29.
16. Anonymous, 2015. *Gharkhet par sasta cold storage banva sakenge kisan*. *NaiDuniya News Paper*. 29 Nov.
17. Tope J, Tripathi MK, Chakraborty SK, Punit Chandra and Kotwaliwale N. 2016. *Probiotic sauerkraut and health*. *Scientific India Magazine*. Jan-Feb. p 52.
18. Rao KVR, Gangwar S, Chourasia L, Bajpai A, K Soni. 2015. *Effect of different mulches on the growth, yield and economics of tomato*. *Bharatiya Krishi Anushandhan Patrika*. 30(3): 152-154.
19. Senthilkumar T, Chandel NS and Tripathi H. 2015. *Mechanical rice transplanter- A boon to rice farmers*. *Indian Farming*. Nov. 65 (8): 42-44.
20. Singh KP, Kumar Manish, Agrawal KN, Kushwaha HL, Tripathi H and D Jat. 2015. *Evaluation of furrow opener for application of fertilizer at different depths*. *Bhartiya Krishi Anusandhan Patrika*. 30 (3): 125-127.
21. Singh PL, Jena PC, Giri SK, Golap BS and Kushwah OP. 2015. *Graminilakon me phalo wa sabjiyon keliye saurchalit cold storage*. *Krishak Doot*. Nov24 (7&12).
22. Singh, PL, PC Jena, SK Giri, BS Golap, OP Kushwah. 2015. *Phalo v sabjiyo ko taja rakhane keliye saur chalit sheet grah*. *Udyamita*. Sep. 24 (5): 12-14.
23. Tripathi, MK. *Foods with potential to cure specific conditions*. 2016. *Food and Beverage News*. March 1-15: 9.
24. बी एम नांदेडे, एन एस चंदेल, टी सेंथिलकुमार तथा के आर सोलंके (२०१६) बहुकदन्न फसलों के लिए ट्रेक्टर चालित छ कतारीय बीज तथा खाद बुवाई यन्त्र. कृषक जगत, २९ फरवरी से ६ मार्च २०१६. पृष्ठ क्रमांक ७.

Books, Book Chapters and Conference Proceedings

1. Ambrose DCP, Annamalai SJK, Naik R, Dubey A .2015. *Establishment of Millet Processing Centre for tribal livelihood enhancement- An overview* (Tamil). *Agricultural Engineering in Tamil Book 2015*. Published by Laser Park publishing house, Coimbatore. ISBN No. 978-93-842-34-19-5, pp:23-27.
2. Deshpande S. 2015. *Processing of soybean at domestic and cottage level*. International training programme for participants of African Asian Rural Development Organization (AARDO). CIAE/TTD/2015/455: 72-76.
3. Khadatkar A, Gite LP, Wakudkar H, Narwariya BS and Saini N. 2015. *Small hand tools and equipment used by farm women for rural development in Indian agriculture*. *Search and Research Youth Conclave 2015*, ISSN No. 0975-5713:2.
4. Krithika, Ruthra Priya and Naik R. 2015. *Studies on shelf life of minimally processed banana centre core* (Tamil). *Agricultural Engineering in Tamil Book*. Laser Park publishing house, Coimbatore. ISBN No. 978-93-842-34-19-5, pp:28-36.

5. Kulkarni SD. 2015. *Agribusiness options for persons with disabilities in rural India*. National Workshop on Sustainable development in Agribusiness for Persons with Disabilities in Rural India at organized by Society of Disability and Rehabilitation Studies New Delhi and RAU Pusa, Samastipur.pp.13-22.
6. Mohapatra D, Saha KP. 2015. *Economic analysis of microwave-hot air based disinfestation system for pulses* presented in Indian Science Congress at MPCoST, Bhopal held during March 30-31, 2015.
7. Naik R, Annamalai SJK and Senthilkumar T.2015. *Development of tractor operated sugarcane bud settling transplanter* (Tamil). Agricultural Engineering in Tamil Book 2015. Published by Laser Park publishing house, Coimbatore. ISBN No. 978-93-842-34-19-5, pp:16-22.
8. Senthilkumar T, Kavitha R and Duraisamy VM. 2015. *A text book of Farm Machinery*. ISBN No. 978-93-81102-30-5, Published by Thannambikkai Publication, Coimbatore-41
9. Singh D, Saha KP, Bhushanbabu. *Field evaluation of metallurgically improved oil palm harvesting knives* presented in Indian Science Congress at MPCoST, Bhopal held during March 30-31, 2015.

Technical/ Extension Bulletins

- Pandey KC, Pajnoo RK and Shukla P. 2016. Research highlights and Project Coordinator's report 2015-16. Coordinating Cell, ICAR-AICRP on EAAI, CIAE, Bhopal.
- Pajnoo RK, Shukla P and PandeyKC.2016. Manufacturers and suppliers of renewable Energy equipment and accessories. Coordinating Cell, ICAR-AICRP on EAAI, CIAE, Bhopal.
- Pandey KC, Mahendiran R and Shukla P. 2016. Energy Audit Manual. Coordinating Cell, ICAR-AICRP on EAAI, CIAE, Bhopal.
- Rao KVR, Gangwar S, Bajpai A, Chourasia L and Kumar Soni. 2016. Greenhouse *mai sabjiyo aur phoolon ki kheti: vyavasaya kdrishtise*. No.197. CIAE publication.1-34.
- Singh PL, Jena PC, Giri SK, Singh RC, Gholap BS, Kushwah OS, Hamad R and Sanodiya K. 2016.*Solar PV powered refrigeration system for storage of horticultural produce*.Technical Bulletin No. CIAE/AEP/2016/96.
- Jena PC and Singh RC. 2016. *Biomass charring and briquetting technology for domestic fuel*. Extension Bulletin No.CIAE/AEP/2016/96.
- Annamalai SJK, Naik R, Ambrose DCP, MuthamilSelvan M,Balasuramanian S,Senthilkumar T,Senthilkumar R. 2015. *Farm Equipment and Post-harvest technologies*(Tamil), Extension bulletin. Publication No. CIAE/RC/2015/11
- Annamali, SJK, Naik R, Ambrose DCP, Balasubramanian S and Senthilkumar T. 2015.*Technologies for farm mechanization and post-harvest management*. Extension Bulletin No.CIAE/RC/2015/12.

Extension folder

1. Ambrose DCP, Annamalai SJK & Naik R. 2015 *Millet processing* in Tamil–Extension Folder CIAE/ IEP/2014-15/2
2. Naik R and Annamalai SJK. 2015. *Mechanization package for sugarcane budd chip propagation technology*. Extension folder CIAE/IEP/2015/05
3. Naik R and Annamalai SJK.2015. *Back pack mounted oil palm harvesting equipment*. Extension folder CIAE/IEP/2015/07 (2000 copies)
4. Vishwanathan R, Annamalai SJK, Matalthi P, Naik R, Sundar R, Dhananchezian, Prasanth N, Rutra Priya. 2015. *New Technology for treatment of sugarcane setts/bud* (In tamil).Extension pamphlet : published by ICAR- SBI, Coimbatore
5. Rao KVR, Gangwar S, Bajpai S, Chourasia L and Kumar Soni. 2016. *Greenhouse mai tamatar khautpadanavam prabandhan* 1-8.
6. Rao KVR, Gangwar S, Bajpai A, Chourasia L and Kumar Soni. 2016. *Greenhouse mai kheera khaut padanavam prabandhan*.1-6

7. Rao KVR, Gangwar S, Bajpai A, Chourasia L and Kumar Soni. 2016. *Greenhouse mai gerbera khautpadanavam prabandhan*.1-8.