

## RAMA CHANDRA PRADHAN

### Contact Address:

Department of Food Process Engineering

National Institute of Technology (NIT)

Rourkela-769008, Odisha, India

Phone/Mob: +91 661 2462904 / +91 8895427339

Email: pradhanrc@nitrkl.ac.in (or) ramapradhan@rediffmail.com

### CAREER SUMMARY

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Current : Associate Professor (NIT Rourkela)

Highest Degree : **Ph. D.**, Indian Institute of Technology Delhi, India;  
**M. Tech.**, Indian Institute of Technology, Kharagpur, India

Teaching & Research : **08** years

Patent : **1**

Publications : **Int. Journal: 37; National Journal: 12; Article: 03**

Skills : Engineering properties of biomaterials and Post Harvest equipments for oilseeds, Agricultural Bio-Process & Food Engineering, Value addition and Biomass utilization and Bio-Energy production.

### WORK EXPERIENCE

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Position	Name of the Institution	Period
Associate Professor	National Institute of Technology (NIT), Rourkela	2 <sup>nd</sup> Feb. 2018 - Continuing
Assistant Professor	National Institute of Technology (NIT), Rourkela	June 2014 – 1 <sup>st</sup> Feb. 2018
Assistant Professor	Banaras Hindu University, Varanasi	Sept. 2010 – May 2014
Project Associate	Indian Institute of Technology (IIT), Delhi	April 2005 – Dec. 2005
Project Assistant	Indian Institute of Technology (IIT), Kharagpur	Aug. 2004 – Jan. 2005

### EDUCATION

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**Ph. D**

January 2006 – May 2011

**Title:** Design and development of low cost post harvest equipment for Jatropha

Centre for Rural Development & Technology,

Indian Institute of Technology **IIT**, [www.iitd.ac.in](http://www.iitd.ac.in), New Delhi, India

*Supervisors:* Prof. S N Naik, Dr V K Vijay, Prof. Naresh Bhatnagar (Mechanical Engg.)

**M. Tech** (Post Harvest Engineering)

July 2002- July 2004

**Title:** Production and continuous shaping of *Karapak* sandesh

Dept. of Agricultural & Food Engineering,

Indian Institute of Technology (**IIT**, [www.iitkgp.ac.in](http://www.iitkgp.ac.in)), Kharagpur, India

*Supervisor:* Late Prof. H. Das

**B. Tech** (Agricultural Engineering)

Sept 1996 - Oct 2000

College of Agricultural Engineering & Technology (CAET)

OUAT ([www.ouat.ac.in](http://www.ouat.ac.in)), Bhubaneswar, Orissa, India

## AWARDS

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1. Outstanding Faculty in Engineering, Food Processing, VIFA International Award-2017, organised by Venus International Foundation, Chennai.
2. Best Paper Award in the International Conference on Frontiers of Plant Sciences & Developing Technologies, organised by Mahima Research Foundation and Social Welfare, Varanasi, Uttar Pradesh, 7-8 November 2015.
3. Jawaharlal Nehru Award for Outstanding Doctoral Thesis Research - 2012 in Agricultural Engineering by I.C.A.R., New Delhi.
4. Awarded Graduate Student Exchange Program (GSEP) Fellowship by the Canadian Bureau for International Education (CBIE) to University of Saskatchewan in the Deptt. of Agriculture and Bioresources Engineering, Saskatoon, Canada from 1<sup>st</sup> Sept 2008 to 28<sup>th</sup> Feb 2009.
5. Awarded full financial assistance for presenting a research paper in an International conference by DST, New Delhi, India, under International Travel Support Scheme.
6. Qualified in *Graduate Aptitude Test in Engineering* (GATE'2002) Exam. in Agricultural Engineering.

7. Qualified in *Indian Council of Agricultural Research* (ICAR'2001) Exam. in Agricultural Engineering. With all India Rank 10.

### TEACHING EXPERIENCE

Course Name	Organisation	Level
Post Harvest Technology	BHU-Varanasi	B. Sc. Agri.
Farm Power and Machinery	BHU-Varanasi	B. Sc. Agri.
Processing and value addition to cereals, pulses and oilseeds	BHU-Varanasi	B. Sc. Agri.
Rheology, Chemistry & Physics of Biological Materials	BHU-Varanasi	PG (Food Sci. & Tech.)
Advances in Grain Dying	BHU-Varanasi	PG (Food Sci. & Tech.)
Engineering Properties of Biological materials laboratory	NIT Rourkela	B. Tech. (Food Process Engg.)
Food Process Equipment and Plant Design	NIT Rourkela	B. Tech. (Food Process Engg.)
Food Laws, Regulations and Certification	NIT Rourkela	B. Tech. (Food Process Engg.)
Food Industry By-product and Waste Management	NIT Rourkela	B. Tech. (Food Process Engg.)
Advanced Thermal Operation in Food Processing	NIT Rourkela	PG (Food Process Engg.)
Advanced Food Processing Machinery	NIT Rourkela	PG (Food Process Engg.)

### RESEARCH GUIDANCE {M. Sc. / M. Tech. (R)}

S. No.	Degree /Thesis	Title of Thesis	Year of award/ Status
01	M. Sc. in Food Science and Technology	Expression of Bottle gourd ( <i>Lagenaria sicerari</i> ) seed oil and its Byproduct Utilization	2014 (Awarded)
02	M. Tech. (Research) in Food Process Engineering	Design, development and testing of Sal ( <i>Shorea robusta</i> ) seed decorticator	2017 Awarded

**RESEARCH GUIDANCE (Ph.D.)**

S. No.	Degree /Thesis	Title of Thesis	Year of award/ Status
01	Ph.D. in Bio Process and Food Engineering	Super-Critical CO <sub>2</sub> Extraction of Bottle gourd ( <i>Lagenaria sicerari</i> ) seed oil	2014 (Awarded)
02	Ph.D. in Food Process Engineering	Development of a Process for Clarification and concentration of Jamun juice using membrane filtration	(2018) Thesis submitted
03	Ph.D. in Food Process Engineering	Development of technology for post harvest processing of tender jackfruit	On going
04	Ph.D. in Food Process Engineering	Study on Novel non-Thermal Operation for Clarification and Concentration of Fruit Juice ( <i>Anacardium occidentale</i> L.) and its By-product Utilizations	On going
05	Ph.D. in Food Process Engineering	Post Harvest Processing of Myrobalan fruits	On going

**SPONSORED RESEARCH PROJECT**

Sl. No	Title	Sponsoring Agency	Amount (Rs.)	Duration (Year)
1	Development and Production Technologies for Guava Pulp Enriched Fermented Dairy Products (Co-PI)	Ministry of Food Processing Industries, New Delhi	4127000.00	02 (2012-14) (Completed)
2	Extraction of nutraceutical components from bottle gourd seeds using super critical extraction technology (PI)	SERB, DST, New Delhi	840000.00	02 (2013-15) (Completed)
3	Design, development and testing of a continuous Aonla pricking machine (PI)	SEED Division, DST, New Delhi	1092140.00	02 (2015-17) (Completed)
4	Development of a microwave assisted UV sterilization system for	ICAR, New Delhi	3197000.00	02 (2016 – 2018)

	liquid food ( <b>Co-PI</b> )			(Completed)
5	Utilisation of Minor Millets for Ready-to-eat Nutritious Snacks Product by Wet Extrusion Technology ( <b>PI</b> )	SERB, New Delhi	4596000.00	03 (2017-2020) (On going)
6	Study on Novel Non-Thermal Operation for Clarification and Concentration of Fruit Juice ( <i>Anacardium occidentale</i> L.) and its By-product Utilizations ( <b>PI</b> )	SERB, New Delhi	4269168.00	03 (2017-2020) (On going)
7	Design, Development and Testing of a Myrobalan Decorticator for Rural Application ( <b>PI</b> )	Tribal Cooperative Marketing Development Federation of India Ltd (TRIFED), New Delhi	1596250.00	02 (2017 – 2019) (On going)

### LABORATORY DEVELOPED

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1. Laboratory for Physico-chemical analysis of agricultural products (BHU-Varanasi & NIT Rourkela)
2. Laboratory for Cereal, Pulses and Oilseed Milling (BHU-Varanasi & NIT Rourkela)
3. Product Development Laboratory (NIT Rourkela)
4. Food Quality & Testing Laboratory (NIT Rourkela)

### MEMBERSHIP

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1. Life Member of Indian Society of Agricultural Engineering (LM-10629)
2. Member of Institute of Engineers (India) (M-151004-5)

### PATENT

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Naik, S.N., Bhatnagar, N., **Pradhan, R.C.** 2009. An apparatus for decortications of oil fruits/seeds for separation of shell from kernel. Indian Patent Granted. No.: 264631

**PUBLICATIONS**

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**International Journal's Paper: 37**

1. Singh, S.S., Mishra, S., **Pradhan, R.C.**, Vivek, K. 2018. Development of a microwave assisted UV sterilization system for milk. *Acta Alimentaria, An International Journal of Food Science*, Accepted.
2. C Kumar, S., **Pradhan, R.C.**, Mishra, S. 2018. Characterisation of *Madhuca longifolia* seed in relation to processing and design of equipment. *Quality Assurance and Safety of Crops & Foods*, Accepted.
3. Rana, S.S., **Pradhan, R.C.**, Mishra, S. 2018. Optimization of chemical treatment on fresh cut tender jackfruit slices for prevention of browning by using response surface methodology. *International Food Research Journal*, 25(1), 196-203.
4. Vivek, K., Mishra, S., **Pradhan, R.C.** 2017. Physicochemical characterization and mass modelling of Sohiong (*Prunus nepalensis* L.) fruit. *Journal of Food Measurement and Characterization*, DOI: <https://doi.org/10.1007/s11694-017-9708-x>.
5. Ghosh, P., **Pradhan, R.C.**, Mishra, S. 2017. Clarification of Jamun juice by centrifugation and microfiltration: Analysis of quality parameters, operating conditions, and resistance. *Journal of Food Process Engineering*, DOI: 10.1111/jfpe.12603.
6. Hamar, B.Z., Mishra, S., **Pradhan, R.C.** 2017. Design, fabrication, and testing of a pulper for Kendu (*Diospyros melanoxylon* Roxb.). *Journal of Food Process Engineering*, DOI: 10.1111/jfpe.12642.
7. Hamar, B.Z., Mishra, S., **Pradhan, R.C.** 2017. Physico-chemical and sensory analysis of *Kendu (Diospyros melaxoxylon* Roxb.) Jam using fuzzy logic. *Journal of Food Measurement and Characterization*. DOI: 10.1007/s11694-017-9575-5.
8. Srimagal, A., Mishra, S., **Pradhan, R.C.** 2017. Effect of ethyl oleate and microwave blanching on drying kinetics of bitter gourd. *Journal of Food Science and Technology*, 54(5), 1192-1198.
9. Ghosh, P., **Pradhan, R.C.**, Mishra, S. 2017. Jamun Juice Extraction Using Commercial Enzymes and Optimization of the Treatment with the Help of

- Physicochemical, Nutritional and Sensory Properties. International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering. 11(1), 25-28.
10. Ghosh, P., **Pradhan, R.C.**, Mishra, S. 2016. Optimization of process parameters for enhanced production of Jamun juice using Pectinase (*Aspergillus aculeatus*) enzyme and its characterization. 3 Biotech. 6, 241. doi:10.1007/s13205-016-0561-0
  11. C Kumar, S., **Pradhan, R.C.**, Mishra, S. 2016. Fabrication, performance evaluation and optimisation of sal (*Shorea robusta*) seed decorticator. Journal of Food Process Engineering, doi: 10.1111/jfpe.12468.
  12. Ghosh, P., **Pradhan, R. C.**, Mishra, S. 2016. Low-Temperature Extraction of Jamun Juice (Indian Black Berry) and Optimization of Enzymatic Clarification Using Box-Behnken Design. Journal of Food Process Engineering. doi:10.1111/jfpe.12414
  13. C Kumar, S., **Pradhan, R.C.**, Mishra, S. 2016. Exploration of *Shorea robusta* (Sal) seeds, kernels and its oil. Cogent Food & Agriculture (Accepted).
  14. C Kumar, S., **Pradhan, R.C.**, Ghosh, P., Rana, S. S., Mishra, S. 2015. *Shorea robusta* (Diptero carpaceae) seed and its oil as food. International Journal of Food and Nutritional Sciences, 4(4), 228-233.
  15. Ghosh, P., Rana, S. S., C Kumar, S., **Pradhan, R.C.**, Mishra, S. 2015. Membrane filtration of fruit juice-an emerging technology. International Journal of Food and Nutritional Sciences, 4(4), 47-57.
  16. Said, P. P., Arya, O.P., **Pradhan, R.C.**, Singh, R.S., Rai, B.N. 2015. Separation of oleoresin from ginger rhizome powder using green processing technologies. Journal of Food Process Engineering, 38(2), 107-114.
  17. Mohanty, C. S., **Pradhan, R. C.**, Singh, V., Singh, N., Pattanayak, R., Prakash, O., Chanotiya, C. S., Rout, P. K. 2015. Physicochemical analysis of *Psophocarpus tetragonolobus* (L.) DC seeds with fatty acids and total lipids compositions. Journal of Food Science and Technology, 52(6), 3660-3670.
  18. Said, P.P., Sharma N., Naik B., **Pradhan R.C.** 2014. Effect of pressure, temperature and flow rate on supercritical carbon dioxide extraction of bottle gourd seed oil. International Journal of Food and Nutritional Sciences, 3, 14-17.

19. Geed, S.R., Said, P.P., **Pradhan R.C.**, Naik, B.N. 2014. Extraction of essential oil from coriander seed. *International Journal of Food and Nutritional Sciences*, 3, 7-9.
20. Said, P. P., **Pradhan, R.C.**, Rai, B.N. 2014. A green separation of *Lagenaria siceraria* seed oil. *Industrial Crops and Products*, 52, 796-800.
21. Said, P. P., **Pradhan, R.C.** 2013. Preservation and value addition of jiggery- A Review. *International Journal of Agricultural Engineering*, 6(2), 569-574.
22. Said, P. P., **Pradhan, R.C.** 2013. Moisture Dependent Physical Properties of *Lagenaria siceraria* seed. *International Journal of Agricultural and Biological Engineering*, 6(4), 111-120.
23. Said, P. P., **Pradhan, R.C.**, Kumar, A. 2013. Effect of pre-shelling treatments on physical properties of nutmeg (*Myristica fragrans* Houtt.). *Seed Technology*, 35(1), 137-143.
24. **Pradhan, R.C.** Said, P. P., Singh, S. 2013. Physical Properties of Bottle Gourd Seeds. *Agricultural Engineering International: CIGR Journal*, 15(1), 106-113.
25. Sharma, V., **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Singh, S. 2013. Evaluation of a centrifugal impaction-type decorticator for shelling of tung fruits. *Industrial Crops and Products*, 43, 126-131.
26. Patel, M., **Pradhan, R.C.**, Naik, S.N. 2011. Physical properties of fresh mahua. *International Agrophysics*, 25, 303-306.
27. **Pradhan, R.C.**, Mishra, S, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2011. Oil expression from *Jatropha* seeds using a screw press expeller. *Biosystem Engineering*, 109, 158-166.
28. Sharma, V., Das, L., **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Kureel, R.S. 2011. Physical properties of tung seed: An industrial oil yielding crop. *Industrial Crops and Products*, 33, 440-444.
29. **Pradhan, R.C.**, Naik, S.N., Rout, P.K., Dalai, A.K., Meda, V. 2010. Supercritical CO<sub>2</sub> extraction of wheat distiller's dried grain with solubles. *International Journal of Food Science and Nutrition*, 61(8), 829-836.

30. **Pradhan, R.C.**, Meda, V., Naik, S.N., Tabil, L. 2010. Physical properties of canadian grown flaxseed in relation to its processing. *International Journal of Food Properties*, 13, 732-743.
31. **Pradhan, R.C.**, Meda, V., Rout, P.K., Naik, S.N., Dalai, A.K. 2010. Supercritical CO<sub>2</sub> extraction of fatty oil from flaxseed and comparison with screw press expression and solvent extraction processes. *Journal of Food Engineering*, 98, 393- 397.
32. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2010. Design, development and testing of hand-operated decorticator for *Jatropha* fruit. *Applied Energy*, 87, 762-768.
33. Sahoo, N.K., Pradhan, S., **Pradhan, R.C.**, Naik S.N. 2009. Physical properties of fruit and kernel of *Thevetia peruviana* J.: a potential biofuel plant. *International Agrophysics*, 23, 199-204.
34. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2009. Moisture-dependent physical properties of *jatropha* fruit. *Industrial Crops and Products*, 29, 341-347.
35. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Swain, S.K. 2008. Moisture-dependent physical properties of karanja (*Pongamia pinnata*) kernel. *Industrial Crops and Products*, 28, 155-161.
36. Dash, A.K., **Pradhan, R.C.**, Das, L.M., Naik, S.N. 2008. Some physical properties of *Simarouba* fruit and kernel. *International Agrophysics*, 22, 111-116.
37. Garnayak, D.K., **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N. 2008. Moisture-dependent physical properties of *jatropha* seed (*Jatropha curcas* L.). *Industrial Crops and Products*, 27, 123-129.

**National Journal's Paper: 12**

38. C Kumar, S., **Pradhan, R.C.**, Mishra, S. 2018. Influence of moisture content and compression axis on physico-mechanical properties of *Shorea robusta* seed. *J. of the Institution of Engineers (India): Series A*, DOI: <https://doi.org/10.1007/s40030-018-0274-y>.

39. Hamar, B.Z., Mishra, S., **Pradhan, R.C.** 2017. Physico-chemical, mechanical and antioxidant properties of *Kendu (Diospyros melaxoxylon Roxb.)*. *Current Research in Nutrition and Food Science*, 5(3), 214-222.
40. Ghosh, P., **Pradhan, R.C.**, Mishra, S., Patel, A.S., Kar, A. 2017. Physicochemical and nutritional characterization of Jamun (*Syzygium cuminii*). *Current Research in Nutrition and Food Science*, 5(1), 25-35.
41. Ghosh, P., Rana, S.S., Nayak, A., **Pradhan, R.C.** 2016. Quality evaluation of food by thermal imaging, *International Journal of Processing and Post Harvest Technology*, 7(1), 126-133.
42. Patel, A. S., **Pradhan, R.C.** 2015. Quality ranking of bottle gourd seed cake powder incorporated biscuit using fuzzy analysis of sensory attribute. *Bioinfolet*, 12(4A), 901-908.
43. **Pradhan, R.C.**, Patel, A. S., Mishra, S. 2015. Physico-chemical properties of bottle gourd kernel. *Journal of Agricultural Engineering*, 52(4), 28-34
44. Kumar, A., Goyal, S.K., **Pradhan, R.C.**, Goyal, R.K. 2015. A study on status of milk adulterants using in Milk of District Varanasi. *South Asian Journal of Food Technology and Environment*, 1(2), 140-143.
45. Naik, S.N., Jadeja, G.C., **Pradhan, R.C.**, Rout, P.K. 2014. Extraction of natural products using supercritical fluids and pressurized liquids. *Pharmaceutical and Biological Evaluations*, 1, 9-14.
46. Said, P. P., **Pradhan, R.C.** 2014. Advanced Food Grain Storage Practices – A Review. *Journal of Grain Processing and Storage*, 1, 1-5.
47. Said, P. P., **Pradhan, R.C.** Pashte, V.V., Sharma, N. 2014. Effect of agronomic practices on RTS beverage prepared from sugarcane juice. *Bioinfolet*, 11(3A), 769-771.
48. Said, P. P., **Pradhan, R.C.** 2013. Effect of pre-shelling treatment, cylinder speed and moisture content on performance on nutmeg decorticator. *Bioinfolet*, 10 (4C), 1587-1590.

49. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2009. Physical properties of tree borne oilseed: Potential biodiesel feedstock in India. Assam University Journal of Science & Technology: Physical Science and Technology. 4, 46-53.

**Article: 03**

50. **R C Pradhan**, Sandeep Singh Rana, Payel Ghosh. 2017. Traditional, modern trends of food grains storage. Food and Beverage News, March, 2017, 38-40.
51. Sharma, N, Said, P. P., **Pradhan, R.C.** 2013. High pressure freezing: A novel food freezing techniques. Process Food Industry, 16 (9): 14-16.
52. Pradhan, S., Sahoo, N.K., **Pradhan, R.C.**, Das, L., Naik, S.N., Sahoo, P.K. 2010. Toxic phorbol ester in *Jatropha* oil, Cake, and Biodiesel- A Study. SAARC Oils and Fats Today, March 2010, 10-14.

**Manual: 01**

1. **Pradhan, R.C.**, Said, P. P. 2014. Practical Manual on Post Harvest Technology.

**Book: 01**

1. **R. C. Pradhan**, S. N. Naik, Post Harvest Processing of *Jatropha curcas*-Decorticator, Oil Expeller. Lambert Academic publishing, Germany (ISBN: 978-3-659-27692-7), 2012.

**Book Chapter: 09**

1. **Pradhan, R.C.**, Goyal, S.K. 2013. Post-Harvest Equipments for Processing of Oilseeds. In: Goyal et al Eds., Agricultural Education, Research and Extension in India, ISBN: 978-81-921360-5-9, Podder Publication, Varanasi, Uttar Pradesh, India.
2. Said, P.P., **Pradhan, R.C.**, Sharma, N. 2013. Screw Press Oil Expression: A modern Oil Separation tool. In: Rao, RK, Eds., Systematic Approach in Implementation of Informational and Resource-Saving Technologies in Food-Crop Production: Prerequisite for Eco-balancing, ISBN: 978-81-926935-2-1, Mahima Publications, Varanasi, Uttar Pradesh, India.

3. **Pradhan, R.C.**, Ghadei, K., Mahapatra, S. 2014. Role of Agro-Processing Industry for Rural Development. In: Gupta, D., Eds., Advances in Extension Education and Rural Development, Volume II, ISBN: (13):978-81-7754-150-2, M/S Agrobios (India), Jodhpur, Rajasthan, India, pp-39-54.
4. **Pradhan, R.C.**, Said, P.P. 2014. Application of Supercritical Carbon Dioxide Extraction for sustainable Agriculture. In: Rao, R.K., Eds. Novel Innovations and Strategies for Boosting Production and Productivity in Agriculture, ISBN: 978-81-926935-4-5, Mahima Research Foundation and Social Welfare, Varanasi, Uttar Pradesh, India.
5. Ghosh, P., Rana, **Pradhan, R.C.**, Mishra, S. 2016. Economical and Eco-friendly Drying Methods and Modelling for Retention of Quality Attributes of Amla. In: Climate Change and its Implications on Crop Production and Food Safety, ISBN: 978-81-926935-4-5 Mahima Research Foundation and Social Welfare, Varanasi, Uttar Pradesh, India.
6. **Pradhan, R.C.**, Kumar. A. 2016. Improved technology for non-edible seed oils: sources for alternate fuel. In: Emerging Energy Alternatives for Sustainable Environment (Accepted).
7. Vyas, P., Kumar. A., **Pradhan, R.C.** 2016. Lignocellulosic biomass to bio-energy production: process and techniques for biomass assessment. In: Emerging Energy Alternatives for Sustainable Environment (Accepted).
8. Shashi K.C., **Pradhan, R.C.**, Mishra, S. 2016. Machine performance on shelling of sal (*Shorea robusta*) seed. In: Food Process Engineering and Technology, ISBN: 9789386256300, Excel India Publishers, New Delhi, India, pp. 233-240.
9. Kumar, A., Chaturvedi, S., **Pradhan, R.C.**, Nain, L., Sharma, S. 2018. Utilization of *Jatropha curcas* L. for biofuel production and sustainable environmental development. In: Biofuels Advances and Perspectives, ISBN:978-93-85046-22-3, Studium Press, New Delhi, India, pp-118.

**Papers in Conferences/Symposia: 23**

1. Naik, S.N., **Pradhan, R.C.**, Pradhan S. 2007. Post Harvest Processing of Jatropha for the production of Biodiesel, National workshop on biodiesel, Madurai, India (2007), Oct.
2. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2008. Some Physical Properties of Jatropha Seed (*Jatropha curcas* L.): In Indian Context. International Conference on Energy Security and Climate Change: Issues, Strategies, and Options (ESCC 2008), Bangkok, Thailand (2008), 6-9<sup>th</sup> August.
3. **Pradhan, R.C.**, Naik, S.N., Bhatnagar, N., Vijay, V.K. 2008. Engineering Processing of Jatropha: a Potential Biofuel Crop in India. One-Day Conference at Assam University, Silchar, India (2008) 3rd December.
4. **Pradhan, R.C.**, Naik, S.N., Meda, V., Bhatnagar, N., Vijay, V.K. 2009. Mechanical Expression of oil from Oilseeds in a Screw Press Oil Expeller. International Conference on Food Security and Environmental Sustainability (FSES 2009), IIT Kharagpur, India (2009), 17-19<sup>th</sup> December.
5. **Pradhan, R.C.**, Naik, S.N., Meda, V. 2009. Effect of Worm-shaft Speed and Moisture Content on Oil Expression of Flaxseed. 64<sup>th</sup> Annual Convention and International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS 09), New Delhi, India (2009), 9-11<sup>th</sup> December, p. 72.
6. Naik, S.N., **Pradhan, R.C.**, Das, L., Sharma, V. 2009. Physical Properties of Tung Seed in Relation to its Processing. 64<sup>th</sup> Annual Convention and International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS 09), New Delhi, India (2009), 9-11<sup>th</sup> December, p. 99
7. Pradhan, S., Sahoo, N.K., **Pradhan, R.C.**, Das, L., Naik, S.N., Sahoo, P.K. 2009. Production of Biodiesel and Study of Toxic Phorbol Ester in Jatropha Curcas Oil, Cake and Biodiesel. 64<sup>th</sup> Annual Convention and International Conference on Oils, Fats, Fuels and Surfactants (ICOFFS 09), New Delhi, India (2009), 9-11<sup>th</sup> December, p. 105.
8. **Pradhan, R.C.**, Singh, D.S. 2011. Protected cultivation: A technology for efficient use of irrigation water. National Seminar on Sustainable Management of Water Resources, 14-15 January, 2011, Dept. of Farm Engineering, Banaras Hindu University, Varanasi, India.

9. Kumar, A., **Pradhan, R.C.** 2011. Present status and prospects of food processing industries in India. International Symposium on Recent Trends in Processing & Safety of Speciality and Operational Foods, 23-25 November 2011, Defence Food Research Laboratory, DRDO, Ministry of Defence, Mysore, Karnataka, India.
10. **Pradhan, R.C.** 2011. Sustainable agricultural production through protected cultivation. National Conference on Controlling Environmental Pollution through Water Conversation for Sustainable Development, 26-27 November, 2011, Department of Philosophy & Religion faculty of Arts, Banaras Hindu University, Varanasi, India.
11. **Pradhan, R.C.** 2012. An alternate source of energy: Jatropha seed oil. National Seminar on Environmental Concerns and Sustainable Development: Issues and Challenges for India, 2-4 March, 2012, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi, India.
12. **Pradhan, R.C.**, Kumar, R. 2012. Post harvest equipments for processing of oilseeds. National Seminar on Agricultural Education, Research and Extension: Problems, Solution and Prospects, 11 April 2012, Krishi Vigyan Kendra, Institute of Agricultural Sciences, Banaras Hindu University, Rajiv Gandhi South Campus, Barkachha, Mirzapur, U.P., India.
13. **Pradhan, R.C.**, Said, P. P. 2013. An overview of Garden cress seed for its medicinal and nutritional properties. International Conference on Global Scenario of Traditional System of Medicine, Ayurveda, Agriculture and Education, 21-22 January 2013, Rajiv Gandhi South Campus, Barkachha, Mirzapur, U.P., India.
14. **Pradhan, R.C.**, Said, P. P. 2013. Entrepreneurial Development and Agri-Business through Post Harvest Technology for Oilseeds. XI Agricultural Science Congress-2013, 7-9 February, 2013, Orissa University of Agriculture & Technology, Bhubaneswar, India.
15. Said, P. P., **Pradhan, R.C.**, Sharma, N. 2013. Screw press oil expression: A modern oil separation tool. National Conference on Systematic Approach in Implementation of Informational and Resource-Saving Technologies in Food-Crop Production: Prerequisite for Eco-Balancing, 23-24 November, 2013, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India.

16. **Pradhan, R.C.** 2014. Effect of pressure, temperature and flow rate on supercritical carbon dioxide extraction of bottle gourd seed oil. 4<sup>th</sup> International Conference on Updating Food Technology: A Challenge Towards Public Health Nutrition (ICUFT-2014), 7-8 May, 2014, Jawaharlal Nehru University, New Delhi, India.
17. **Pradhan, R.C.** 2014. Application of Supercritical Carbon Dioxide Extraction for sustainable Agriculture. International Conference on Novel Innovations and Strategies for Boosting Production and Productivity in Agriculture, 15-16 November, 2014, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India.
18. **Pradhan, R.C.** 2015. Improved Technology for Non-Edible seeds. International Workshop on Bridging Development Drive for Inclusive Growth through Science, Technology and Innovation, 16-17 January, 2015, DST-Centre for Policy Research, BBA University, Lucknow, Uttar Pradesh, India.
19. **Pradhan, R.C.** 2015. Effect of various parameters on *Lagenaria siceraria* seed's oil expression using an oil expeller. International Conference on Frontiers of Plant Sciences & Developing Technologies, organised by Mahima Research Foundation and Social Welfare, Varanasi, Uttar Pradesh, 7-8 November 2015.
20. **Pradhan, R.C.**, Patel, A. S., Mishra, S. 2016. Screw press oil expression from *Lagenaria siceraria* seed. 50<sup>th</sup> Annual Convention of Indian Society of Agricultural Engineers (ISAE) and Symposium on "Agricultural Engineering in nation Building: Contribution and Challenges", 19-21 January 2016, College of Agricultural Engineering & Technology, Orissa University of Agriculture & Technology, Bhubaneswar, Odisha, India.
21. Shashi, K.C., **Pradhan, R.C.**, Mishra, S. 2016. Effect of moisture content on physical properties of sal (*Shorea robusta*) seeds. 2<sup>nd</sup> International Conference on Food Properties (iCFP 2016), 31<sup>st</sup> May – 2<sup>nd</sup> June, 2016, Bangkok, Thailand.
22. Shashi K.C., **Pradhan, R.C.**, Mishra, S. 2016. Machine performance on shelling of sal (*Shorea robusta*) seed. International Conference on Emerging Technologies in Agricultural and Food Engineering, 27-30 December, 2016, Indian Institute of Technology, Kharagpur, West Bengal, India.

23. **Pradhan, R.C.**, Rana, S.S., Mishra, S. 2017. A Process for prevention of browning in fresh cut tender jackfruit. ICGFS 2017 : 19th International Conference on Global Food Security, 8-9<sup>th</sup> January 2017, Singapore.

#### **TRAINING / EXTENSION EXPERIENCE**

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- Attended National Oil seeds and Vegetable Development Board (NOVOD) 2<sup>nd</sup> review meeting on “National Network Jatropha & Karanja” on 28<sup>th</sup> November, 2005 at India International Centre, New Delhi, India.
- Attended “Workshop on Jatropha” on 19<sup>th</sup> May, 2005 at Natural Resource Management Center, Sonha , Gurgaon, India.
- Attended vacation training programme on “Bio resources for School Children” on June 19, 2006, organised by CCS Haryana Agril. University, Regional Research Station, Bawal, India.
- Attended NOVOD 3<sup>rd</sup> review meeting on “National Network Jatropha & Karanja” on 5<sup>th</sup> January, 2007 at NOVOD Board, Gurgaon, India.
- Attended NOVOD 4<sup>th</sup> review meeting on “National Network Jatropha & Karanja” on 12<sup>th</sup> February 2008 at NASC complex, IARI, New Delhi, India.
- Participated in the Trainers’ Training Programme on “Development of Value Added Products from Fresh Mahua Flowers”. Organized by Centre for Rural Development & Technology, IIT Delhi from 4.2.2011 to 5.2.2011.
- Participated in the Training-cum-workshop on “Application of ICTs in Modified Agricultural Extension Reforms”. Organized by Deptt. of Extension Education, Institute of Agricultural Sciences, B.H.U., Varanasi from 01.08.2012 to 03.08.2012.
- Participated in the “5<sup>th</sup> Refresher Course in Environmental Studies”. Organized by UGC Academic Staff College, B.H.U., Varanasi from 03.08.2012 to 03.09.2012.
- Participated in the Orientation Programme for the Academic Counsellors. Organized by Indira Gandhi National Open University, Regional Centre, Varanasi from 22.09.2012 to 23.09.2012.

- Participated in the “USAID supported Agricultural Innovation Partnership Training for bakery Processor”. Organized by Dept. of agri. & food Techn., Sardar Vallabhbhai Patel University of Agri. & Techn., Meerut, U.P., from Novemeber 6-8, 2012.

**WORKSHOP: *Invited As Subject Specialist***

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- Given a presentation on “Post harvest processing of Jatropha and Production of biodiesel” in Farmers Training programme at C.S.A. Agril. University, Kanpur, India.
- Given a presentation on “Processing and Production of biodiesel from Jatropha” as in “National Seminar on Biofuel: Future Energy Source” at Ajay Binay Institute of Technology, Cuttack, Orissa, India.
- Given a presentation on “Post Harvest Technology of Jatropha” on “Jatropha Cultivation: Current Status, Viability and Future Strategies” on 26<sup>th</sup> July, 2006 at C.C.S. Haryana Agril. University, Hissar, India.
- Given a presentation on “Post harvest technology of Jatropha for production of biodiesel” on 18<sup>th</sup> and 26<sup>th</sup> December, 2006 in Trainer Training programme organized by NOVOD Board, Gurgaon, India.
- Given a presentation on “Machine Requirements for Mango Cultivation and Processing” in National Seminar on “Chausa Mango Processing and Export Opportunities from Uttar Pradesh, Saharanpur” on 13<sup>th</sup> August, 2013 at Saharanpur, UP, India.
- Given a presentation on “An Overview of Food Processing Sector in India” in 23<sup>rd</sup> paper meeting of the session 2014-16 at The Institution of Engineers (India), Rourkela Local centre on 24<sup>th</sup> February 2016.

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