



**Padma Lochan Pradhan, Ph.D.**  
**Associate Professor and O.I.C.,**  
**AICRP on Farm Implements and Machinery**  
**Department of Farm Machinery and Power**

### **Education**

- Ph.D. (Agril. Engg.) in Farm Machinery and Power, Orissa University of Agriculture and Technology, Bhubaneswar- 2007
- M. Tech. (Agril. Engg.) in Farm Machinery and Power, Indian Institute of Technology, Kharagpur, West Bengal (India)- 1989
- B.Sc. (Ag. Engg. & Tech.), Orissa University of Agriculture and Technology, Bhubaneswar- 1987

### **Experience**

Working in OUAT Bhubaneswar since 1990 in different capacities in teaching, research and extension and as Associate Professor, AICRP on Farm Implements and Machinery, Department of Farm Machinery and Power since Nov, 2007; Officer in Charge, AICRP on Farm Implements and Machinery since May, 2013.

### **Externally Funded Projects/ schemes**

- Co-Investigator, “Conducting Study and Formulating Long Term Mechanization Strategy for Each Agro climatic Zone” (Project period 2000-2002) funded by IASRI (ICAR).
- Working as Co-Principal Investigator and Principal Investigator in many research projects of AICRP on Farm Implements and Machinery since 1999 till date. (Project funded by the Indian Council of Agricultural Research, 75 %)

### **Other important assignments**

- *External Examiner and Question Setter for various courses of Central Agricultural University, Imphal, Manipur and Centurion University, Paralakhemundi, Odisha*

### **Courses taught**

- Farm Power and Machinery (B.Sc. Ag.)
- Thermodynamics and Heat Engines (B. Tech.)
- System Engineering (B. Tech.)
- Agricultural Research, Research Ethics and Rural Development (M. Tech. & Ph.D.)

### **Students guided**

Guided two students for M. Tech.

### **Significant research contributions**

- Developed a power tiller operated inclined plate planter
- Developed a self propelled germinated rice seeder
- Developed a package of power tiller operated equipments (lawm mower, brush cutter, ridger, post hole digger) for horticultural crops
- Studied the effect of tillage practices on soil physical properties and rice yield

- Studied the feasibility of tractor drawn zero till drill for sowing of pulse crops in Odisha

#### ***Present research interests***

- Mechanical direct seeding of rice
- Development of a power tiller operated potato planter
- Feasibility study of package of equipments for maize, groundnut and pulse crops in Odisha

#### ***Honours and Awards***

- Received 1<sup>st</sup> Prize and Gold Medal in Agricultural, Mechanical, Environmental and other Engineering Division of Orissa Engineering Congress for the paper entitled 'Use of Power Weeder for Sugarcane Cultivation in Orissa' during 53<sup>rd</sup> Annual Session held on 21.1.2008.
- Also received some awards for presentations in seminars/ posters

#### ***Peer recognition***

- Referee of many national/ international journals on Agriculture and Agricultural Engineering
- Expert member in the Testing Committee of Farm Machinery Testing Centre of O.U.A.T.
- Consultant and resource person to different Govt. and non-Government organizations
- Member of several state and national level committees working on farm power and machinery

#### ***Publications***

Authored 1 book, 4 technical bulletins, 20 research papers in peer reviewed journals, 15 research papers in proceedings of different conventions and more than 10 popular technical articles.

#### ***Selected publications***

- Pradhan, P.L.; Mishra, J.N.; Paul, J.C. and Nanda, S.K. 2011. Development and evaluation of a power tiller operated planter for Maize, Agricultural Mechanization in Asia, Africa, and Latin America, Vol. 42(4) : 67-71.
- Mishra, J.N.; Pradhan, P.L. and Paul, J.C. 2011. Off season cultivation and techno-economic evaluation of Okra grown under greenhouse, Agricultural Mechanization in Asia, Africa, and Latin America, Vol. 42(3) : 42-46.
- Pradhan, P. L., Paul, J. C. and Mishra, J. N. 2011. Effect of tillage practices on soil physical properties and yield of rice in sandy loam soil of Orissa. Journal of Soil & Water Conservation. Vol. 10 (1): 49-53.
- Rout, P.K.; Pradhan, P.L. and Nanda, S.K. 2012. Comparative performance of zero till drill, seed drill and broad casting for sowing green gram in farmers' field, Agricultural Engineering Today, Vol. 36 (3) : 12-15.
- Rout, P.K.; Pradhan, P.L. and Nanda, S.K. 2013. Mechanised groundnut cultivation in dry land of Odisha, Agricultural Engineering Today. Vol. 37(4): 1-6.

#### ***Contact details:***

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