

Sangram Keshari Swain, Ph.D. Research Engineer & OIC, AICRP on Utilization of Animal Energy(UAE) Department of Farm Machinery & Power

Education

- Ph.D. in Agricultural Engineering, Faculty of Agricultural Engineering, BCKV, Mohanpur, West Bengal- 2005
- M.Sc. (Ag.Engg & Tech) FMP, Orissa University of Agriculture and Technology, Bhubaneswar-1998
- B.Sc. (Ag.Engg & Tech), Orissa University of Agriculture and Technology, Bhubaneswar- 1985

Experience

Working in OUAT Bhubaneswar since 1985 in different capacities in teaching, research and extension. Programme Coordinator, KVK, Mayurbhanj from 2005-2010, as Research Engineer & OIC, AICRP on UAE, Department of Farm Machinery & Power since November, 2012.

Externally Funded Projects/ schemes

• Presently working in All India Coordinated Research Project on Utilisation of Animal Energy with Enhanced System Efficiency since 2012.

Courses taught

- Field operation & maintenance of tractors & farm machinery I & II
- Farm machinery equipment I

Students guided

Guided two students for M. Tech. research

Significant research contributions

Patent: Cashew Nut Sheller from Indian patent Organization (No 227275)

- 1. Bullock drawn eight row drum seeder
- 2. Dynamo operated lighting system for steel bullock cart
- 3. Bullock drawn rotary operated potato peeler and slicer

- 4. Bullock drawn single row multi crop seed-cum-fertilizer drill
- 5. Power weeder for groundnut
- 6. Manually operated cashew nut sheller
- 7. Pedal operated cashew nut sheller
- 8. Semi-automatic Power operated cashew nut sheller
- 9. Urea super granule Applicator for point placement
- 10. Two row Urea super granule Applicator
- 11. USG Dispenser cum Transplanting Guide
- 12. Transplanting guide
- 13. Hold on type power operated paddy thresher-cum-winnower
- 14. Manually operated weeder for maize crop
- 15. Manually operated low land paddy weeder
- 16. Bullock drawn red soil plough
- 17. Bullock drawn improved mb plough
- 18. Marker for Onion Planting

Present research interests

- Bullock drawn implements for land preparation and sowing
- Post harvest gadgets for bullock operated rotary system
- Light weight bullock cart & bullock drawn engine operated rotavator

Honours and Awards

- Best Krishi Viqyan Kendra for the Year 2008-09 in Orissa by OUAT
- Awarded K.C.Das Memorial GOLD MEDAL for the year 1999 for the paper "Field
- performance evaluation of Kamco reaper" published in Technical Annual,
- Institution of Engineers (India), Orissa State centre.
- Best Scientist Field Worker Award by College of Agriculture & College of
- Horticulture, Chiplima (OUAT) for the year 2011.
- Best Poster presentation in International Seminar, BCKV, February, 2011.
- Best Stall Award for OUAT in the National Level Exhibition held at Samastipur,
- Bihar on the occasion of Swadesh Prem Jagriti Sangosthi(Late Amit Singh) during
- May 2009
- Best poster presentation in International Seminar, Crop and Weed Science
- Society, BCKV, West Bengal during 2014
- Second Prize for OUAT Stall at Regional Farmers' Fair at Balasore, Oct.'2014

Member Professional Societies

- Life Member, Indian Society of Agricultural Engineers.
- Life Member, CAET Alumni Association.

Peer recognition

- External examiner to Central Agricultural University.
- Referee of national/international journals.

Resource person to Govt. and non-Government organizations.

Publications

i. Research Papers: 30

ii. Popular Technical Articles (Oriya): 10

iii. Leaflet/Bulletin: 10

Selected publications

- Swain, S.K., A. K. Dash, A. K. Mohapatra, D. Behera and B. K. Behera.2015. Utilization
 of animal energy for post harvest operations in rotary mode. Journal of Crop and
 Weed, 11(1): 75-79.
- Swain, S.K., A.K. Mohapatra, A.K. Dash and R.R. Patnaik. 2015. Development and evaluation of a pneumatic wheel small bullock cart for small and marginal farmers of Odisha. Journal of Extension Education, vol. 20(1): 107-110.
- Swain, S.K., B.R. Nayak, A.K. Mohapatra, and A.K. Dash. 2015. On-farm trial on different weeding methods for low land paddy in farmers' field. Journal of Extension Education, vol. 20(2): 118-121.

Contact details:

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