

Revolving Stool

Women play a significant and crucial role in agriculture and animal husbandry development. Women contribute to nearly 60% of labour in farm production in India. They form the backbone of agriculture, comprising the majority of agricultural laborers in India. Despite the fact that women in India share most of the work in animal production, their work remains mostly invisible. This may be carried out within the confines of homesteads. Gender divisions in agriculture are stark, with all activities involving manual labour assigned to women, while all operations involving machinery and drought animals are generally performed by men. Female agricultural labourers are among the poorest sections of Indian society. Women play in significant and crucial role in animal husbandry activities as well and face drudgery and health hazards while performing milking. As majority of women reported the occurrence of pain in upper and lower extremities as well as of backbone so as a solution of this problem, revolving stool was designed and introduced for milking of the animals. The major activities involved in dairy farming include collection of fodder/cultivation of fodder, grazing the animals, feeding & watering, cleaning the animals and shed, milking and marketing of milk. The operations are flexible and staggered depending upon the convenience of the family members and need not necessarily be attended foregoing wage employment opportunities.

Advantages:

1. Energy expenditure reduces from 13.93 kJ/min. to 12.18 kJ/min. in improved method.
2. TCCW reduces from 794.6 beats to 725.25 beats over conventional method.
3. PCW reduces from 132.43 beats to 120.87 beats in improved method.
4. Provision of ball bearing make the movements easy without getting tired
5. The use of revolving stool improves the work posture from squatting to sitting.
6. It significantly reduces the physiological and muscular fatigue while milking animals therefore making the task comfortable