

Survey of bullock driven tractor for utilization of animal resources effectively

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Draught animals powered Indian agriculture to a greater extent in the past. At present, in India, 60-65 % of the total cultivated area is being managed by 63 million draught animals. Sadly, they are losing their importance, and are being rendered useless. Use of draught animal power is still very predominant in many part of the country due to the prevailing small sized land holdings and socio-economic conditions. It is important to promote the continued use of draught animals in agriculture. The Bullock Drawn Tractor (BDT) is a device which may replace the mechanical tractor. This tractor will use the draught power of animals. By enhancing their use in the agriculture, the initial investment for the purchasing mechanical tractor can be reduced.

Bullock drawn tractors have been developed in the country by some organizations. These are Central Institute of Agriculture Engineering (CIAE), Bhopal, Bharatiya Cattle Resource Development Foundation (BCRD); Delhi, Rajasthan Mechanical Works Ltd (RMW); Jaipur, and Kanpur Goshala Society (KGS); Kanpur. CIAE have developed a BDT named as 'Multi-carrying Tool', BCRD developed 'Kamdhenu', RMW Ltd developed 'Brahmpuri' and Kanpur Goshala Society developed 'Shekhar' Bullock Drawn Tractor respectively. There is almost no cost of operation and very comfortable in field. There are no jerks, smoke or dust. It is three times more productive than a plough and there is no drudgery of walking for miles on foot in the scorching sun. In addition, cattle dung and urine could serve as good manure for organic farming, for health of the soil and sustained productivity and ecology.

Biography

Sushant did his master in Processing & Food Engineering from M.P.U.A.T., Udaipur and B.Tech in Agricultural Engineering from Dr.P.D.K.V. Akola. He has more than four years experience in Academic & Industrial sector. He has published more than four international and six national papers. Currently, he is working as a Asst. Professor at Shri Shivaji Agriculture College, Amravati.

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