Technology Ready for Commercialization

Multi millet planter (manual, animal and tractor drawn)

The ICAR-Central Institute of Agricultural Engineering, Bhopal developed manually-operated single row, bullock drawn three-row and tractor/power tiller drawn six-row multi-millet seed-cum-fertilizer planters that are suitable for the sowing of small seeds, such as, Kodo Millet, Little Millet, Porso Millet, Foxtail Millet, Barnyard Millet, Finger Millet, Mustard and Jute, etc.r sowing of small seeds such as Kodo millet, Little millet, Porso millet, Foxtail millet, Barnyard millet, Finger millet, Mustard, Jute, etc.

Up to 90% seeds can be saved by the use of multi-millet seed-cum-fertilizer planters as compared to broadcasting and 70% seeds as compared to drilling by the traditional methods. The weed management due to the line sowing gives added advantage to obtain the higher productivity, with the use of multi-millet planter. The developed equipment can be used by the different group of millet growing farmers of tribal areas of Madhya Pradesh, Chhattisgarh, Andhra Pradesh and Maharashtra depending upon the available farm power source.

Manual drawn single row multi-millet seed cum fertilizer planter (vertical rotor type for seed and fertilizer)

Overall dimensions, m, (L x W x H)	: 1.17 x 0.45 x 1.1
Overall weight, kg	: 20
Draft, N	: 100-200
Field capacity, ha/h	: 0.05-0.06
Field efficiency, %	: 62-70
Cost of operation, Rs/ha	: 600-700
Cost, Rs	: 5000

Bullock drawn three row multi-millet seed cum fertilizer planter (Vertical rotor for seed and fertilizer)

Overall dimensions, m, (L x W x H)	: 0.7 x 1 x 0.9
Overall weight, kg	: 35
Draft, N	: 400-500
Field capacity, ha/h	: 0.12-0.14
Field efficiency, %	: 65-70
Cost of operation, Rs/ha	: 800-900
Cost, Rs	: 20,000

Tractor/power tiller drawn six-row multi-millet seed-cum-fertilizer planter (vertical rotor for seed and fertilizer)

Overall dimensions, m, (L x W x H)	: 0.7 x 2.1 x 1.0
Overall weight, kg	: 75
Fuel consumption, l/h	: 3-4
Draft, N	: 800-900
Field efficiency, %	: 70-82
Cost of operation, Rs/ha	: 1000-1200
Cost, Rs	: 35,000

ICAR- Central Institute of Agricultural Engineering,
Nabi Bagh, Berasia Road, Bhopal - 462038 (Madhya Pradesh)
Phone Numbers:
Director: 91-755-2737191
E-mail: director.ciae@icar.gov.in