

Millet Processing Machineries and Novel Food Products for Entrepreneurship Development

(Developed under Centre of Excellence on millet)

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Millet Cleaner cum Grader

Millet cleaner cum grader is suitable for cleaning and grading of all types of millets. The cleaning efficiency, capacity and cost of the machine are 90-95 %, 70-80 kg/h and Rs. 40,000/-, respectively.



Millet De-husker

It is a multi-millet de-husker suitable for de-hulling of minor millets like finger millet, foxtail millet etc. The de-hulling efficiency, capacity and cost of the de-huller are 80-85 %, 50-60 kg/h and Rs. 50,000/-, respectively.



Millet Fermenter

Multi-millet fermenter is suitable for fermentation of millets and millet by-products for preparation of different value added products. It has provision to adjust required temperature (25-100°C). Its capacity is 40 kg/batch and cost is Rs. 70,000/-



Millet Popping Machine

The machine is useful for obtaining the popped millets and it is continuous in operation. The popping efficiency, capacity and cost of machine are 75-80 %, 8-10 kg/h and Rs. 80,000/-, respectively.



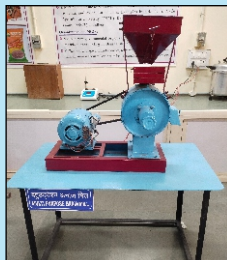
Millet De-Stoner

Millet de-stoner is applicable for separation of stones and other impurities after cleaning. The separation efficiency of the de-stoner is 90-92 % and its capacity is 70-80 kg/h. The cost of the machine is Rs. 50,000/-



Millet Polisher

Millet polisher is useful for removal of bran and germ to improve the appearance and shelf life of millets. The polishing efficiency and degree of polish is 82-85 % and 4-5 %, respectively. Capacity and cost of machine are 50-60 kg/h and Rs. 60,000/-, respectively.



Millet Flour Mill

A flour mill is suitable for production of flour from all types of millets. The capacity and cost of the machine are 50-60 kg/h and Rs. 25000/-, respectively.



Millet Roaster

A millet roaster has been developed for production of roasted millets which can also be used for different value added products. The roasting capacity and cost of machine are 50-60 kg/h and Rs. 60,000/-, respectively.



Millet Biscuit

Millet jaggery-based biscuits are a wholesome and nutritious alternative to traditional refined flour biscuits, made using whole wheat flour, pearl millet, foxtail millet, and jaggery for natural sweetness. Each 100g serving provides 9.21 g protein, 64g carbohydrates, 20g fat, 1.65g ash content. The estimated cost of production is Rs. 200-225/kg.



RTE Millet Health Mixture

Ready-to-Eat (RTE) millet-based health mixture is a nutritious, plant-based snack for health-conscious individuals. Providing 10.5g protein, 6.9g fats, 149mg calcium, and 5mg iron per 100g. The estimated cost of production is Rs. 214/kg.



RTC Millet Instant Dalia

RTC fermented millet instant dalia is a nutritious and ready-to-cook meal. Each 100 g serving provides 11.9 g protein, 62 g carbohydrates, 1.89 g fat, 1.34 g ash, 140 mg magnesium, 4.5 mg iron, and 64% antioxidant activity. The estimated cost of production is Rs.113/kg.



RTS Millet based Beverages

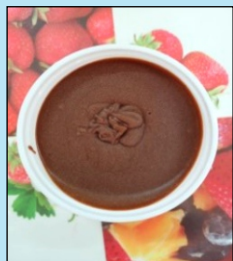
Nutrient-rich, plant-based beverage promoting gut health and supporting overall well-being. Each 100 ml serving delivers 1.5 g protein, 0.90 g fat, 0.29 g ash, 15 mg magnesium, 9 mg calcium, and 56% antioxidant activity. The estimated cost of production is Rs.93/L

(*The cost of production of millet based food products are estimated considering the cost of raw millet as Rs. 60-80/kg)



Millet Laddu

Millet-based laddu is a nutrient-rich superfood providing natural energy, healthy fats, and essential nutrients. Each 100 g contains 12.31 g protein, 27.5 g fat, and 53% antioxidant activity. The estimated cost of production is Rs. 200/kg.



Millet Nutrient Dense Nutri Spread

The millet-based nutrient-dense nutri-spread is a healthy and convenient alternative for health-conscious consumers. Each 100g provides 14.5g protein, 21g fat, 2.4g ash, 25mg phosphorus, 40 mg iron, and 73% antioxidant activity. The estimated cost of production is Rs. 365/kg.



RTS Millet Lassi

Sorghum lassi is a nutritious, gluten-free fermented beverage. Each 100 ml serving contains 2.7 g protein, 60 g carbohydrates, 3.02 g fat, 0.16 g ash, 13 mg magnesium, 10 mg calcium, and 53% antioxidant activity. The estimated cost of production is Rs.80/L



Roasted Bajra

Ready-to-Eat (RTE) roasted bajra is a highly nutritious and versatile product. Each 100 g serving contains 9.96 g protein, 54 g carbohydrates, 5.6 g fat, 1.07 g ash, and 46% antioxidant activity. The estimated cost of production is Rs.84/Kg.



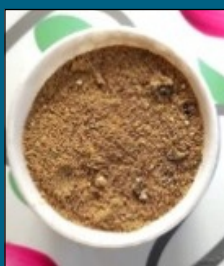
Roasted Kodo Millet

Roasted Kodo Millet is a gluten-free, ready-to-eat, nutrient-dense snack. Each 100 g serving provides 8.6 g protein, 3.64 g fat, 2.72 g ash, and 43% antioxidant activity. The estimated cost of production is Rs.86/Kg.



Bajra Millet Laddu

Bajra-based laddu is a nutrient-rich, healthy and energy-boosting snack. Each 100 g serving provides approximately 8.51 g protein, 2.92 g fat and 0.74 g ash content. The estimated cost of production is Rs.150/Kg.



Millet Herbal Soup

The RTC Millet Herbal Soup is a nutritious and convenient dietary option. Each 100 g serving provides approximately 8.2 g protein, 3.40 g fat, 20.60 g ash, 90 mg magnesium, 8 mg calcium, and 58% antioxidant activity. The estimated cost of production is Rs. 250 / Kg .



Millet Soya Fermented Powder

Millet soya based fermented powder is functional and ready-to-serve (RTS) beverage. Each 100 g of powder provides 12.08 g protein, 2.16 g fat, 1.62 g ash and 6.4% moisture content. The estimated cost of production is Rs. 215/Kg.



Kodo Millet Laddu

Kodo millet-based laddu is a nutrient-rich, gluten-free traditional sweet designed as a healthy, energy-boosting snack. Each 100 g serving provides 12g protein, 16 g fat and 1.98 g ash content. The estimated cost of production is Rs.150/Kg.



Millet Nutri Bar

Millet-based nutri bar is a nutrient-dense and energy-rich snack. Each 100 g serving provides approximately 7.56 g protein, 3.58 g fat, 2.45 g ash content, 90 mg magnesium, 8 mg calcium, and 58% antioxidant activity. The estimated cost of production is Rs.86/Kg.



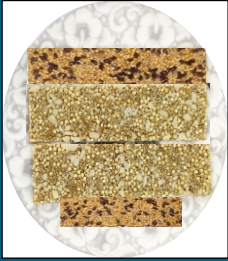
Millet RTS Instant Beverage Mixture

Millet-based Ready-to-Serve (RTS) instant beverage mix is developed using fermented ingredients. Each 100 g serving provides approximately 10 g protein, 2.5 g fat, 2.9 g ash, and 54% antioxidant activity. The estimated cost of production is Rs.300/Kg.



Millet Bread

Millet bread and millet-atta bread are nutritious and healthy bakery product made by replacing the maida content by millet and wheat flour. Millet bred contains moisture content 28.82 %, protein 10.61%, carbohydrate 52.96%, fat 5.76% and ash 1.85%, whereas millet atta bread contains moisture content 31.23%, protein 12.66%, carbohydrate 48.61%, fat 5.38% and ash 2.12%. The production cost of bread is Rs. 70-80/kg.



Millet-Peanut and Millet-flaxseed Chikki

Millet-Peanut and Millet-flaxseed chikki are the nutritious and delicious traditional Indian snacks that offer many health benefits. Fermented millets are used which increase nutrient availability. It contains moisture content 4.13-4.39%, protein 8.13-10.11%, fat 10.85-15.9%, ash 1.47-1.59% and carbohydrate 68.01-75.42%.



Millet Pizza

A composite multi-millet flour based pizza is a replacement of traditional maida based pizza. The product offers a balanced nutritional profile, rich in dietary fiber, essential minerals like iron, calcium, magnesium, and protein. The 100 g of pizza provides an approximate energy value of 340 kcal. The taste, colour and flavors are highly acceptable to the consumers.



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