



Animal Feed With Potato Waste

Technology Description

§ Potato waste with other feed ingredients like mustard oilcake, rice polish, de-oiled rice polish, maize, mineral mixture, urea and salt are used in making feed § Maize and oilcake are grinded in hammer mill. § Then all feed ingredients are mixed in ribbon blender for 15 min § Feed ingredients in form of mash are passed through palletiser to form pellets § Pellets are dried to about 11 % moisture for storage

Name Of institute:
Central Institute of Post Harvest
Engineering and Technology, Ludhiana
Stage of development:
Ready for Commercialization
Patent status: No

Scientific Experts:
Dr. Devinder
Dr. Sangeeta Chopra,

Background

In India feeding about 300 million cattle and buffalo population for milk production is a big challenge. Feed alone accounts for 50 to 75 % of total livestock production expenditure. Thus, Potato processing waste can efficiently be used to reduce grains used in cattle feed,

Benefits / Utility

§ Utilisation of by-products of potato processing industry § Reduces grain use in cattle feed § Relatively cheap, easily digestible source of energy for animals

Country Context

India has a huge population of cattle, buffalo and other farm animals. Grains are essential component of cattle feed. Replacing/reducing grains with potato processing waste will make more grain available for human consumption.

Scalability

§ Viable for small and medium enterprises in vicinity of potato processing plants § Scalable based on plant capacity

Business and Commercial Potential

§ Huge quantity of feed is required to feed vast population of milk producing animals § Immense market potential

Potential investors to this technical innovation

§ Potato processors § Cattle feed manufacturers § Dairy owners



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Financials

§ Total Capital Investment(excluding land and licensing fees) : Rs. 25.00 lakhs § Rated capacity: 25 metric tonnes/month § Variable cost (per month/unit) : Rs 4.00 lakhs § Expected sale/unit: Rs 55 lakhs / annum § No. of units to be sold for monthly break even on variable cost: 12 metric tonnes/month

Target Market / Customer

§ Potato processing industry owners. § Cattle feed / animal feed manufacturers. § Large scale dairy owners. § Potato growers.

Limiting factors for large scale commercialization

§ Regular supply of potato waste for making animal feed § Moisture reduction, transportation and microbial spoilage

Social impact of the technology

§ Reduction in use of grain in cattle feed § Low value potato processing waste is converted into value added product § Solution to problem of waste disposal from potato processing plant § Added income to entrepreneurs § New potential ingredient for feeding cattle

