

Machineries and Processes for Agri and Aqua

AP-10

Technology: Compact Ultra Impeller Rice Mill

Description: The ultra impeller rice mill allows for regular continuous production of white rice, as well as brown rice, on a demand or order basis through minor adjustments at the flick of a switch. Its compact, easy-to-operate design also has a bran and hull discharge system to control dust.

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AP-11

Technology: Semen Extender for Goat

Description: The semen extender for goat is an affordable formulation using soybean lecithin to provide nutrients for goat spermatozoa and to protect goat semen against changes in pH and cold shock when stored in a chilled state.

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AP-12

Technology: Hybrid Dryer for Sea Cucumber

Description: The easy-to-use dryer can help fisherfolk produce premium-grade dried sea cucumber with reduced microbial content, improved shelf life and no foul odor versus traditional drying. The hybrid dryer can be operated using solar heat, biomass burner or electricity.

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AP-13

Technology: Package of Technologies for Mango Production

Description: The package of technologies for mango production makes use of integrated crop management technologies, such as pruning, nutrition and water management, flower induction, and pest and disease management. It also involves post-harvest quality management technologies on fruit handling, trimming and delatexing, sorting and grading, and packaging.

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AP- 14

Technology: Handtractor-Attached Rice Transplanter

Description: Unlike commercially available transplanters which are self-propelled and dedicated machines, the hand tractor attachment can be readily mounted to and dismounted from a common hand tractor unit, improving the utilization of the farm hand tractor.

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AP-15

Technology: Hydroseeder

Description: The hydroseeder has a 1,500-liter slurry tank and pump system which mixes seeds, fertilizer and water together with cellulose binder mulch. It then discharges the slurry via high pressure, allowing seeds to be distributed even in hard-to-reach slopes.

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AP-16

Technology: Pelletizing Machine for Goat Feeds

Description: The pelletizing machine helps ensure continuous availability of high-protein, low-cost feeds for goats. The machine compresses a mixture of plant material such as ipil-ipil, rice bran, copra and molasses into bite-size pieces before these are sundried and stored as feeds.

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AP- 17

Technology: Milkfish Fry Counter

Description: The automatic counter addresses the problem of laborious and inaccurate manual counting of milkfish fry. It uses a laser light source, phototransistor receptor and an Arduino-UNO processor to carry out the counting process, with 95% accuracy based on latest trials.

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