

COMMERCIALIZATION OF TECHNOLOGIES AND PRODUCTS

- Pea: Matar Ageta 7
- Radish: RB 21
- Tomato: TH 1, Punjab Varkha Bahar 4, Punjab Gaurav, Punjab Sartaj and Punjab Red Cherry

Flowers

- Chrysanthemum: Baggi and Ratlam Selection

FOOD PRODUCTS

- Baby Corn Pickle
- Bread and Biscuits with Low Glycemic Index
- Canning of Pear
- Carrot Processing
- Cloud Stable Juices and Nectars
- Development of Multi Fruit Drinks
- Extruded Snacks
- Fruit Beverages
- Gluten-free Products
- Kinnow/Peach/Gooseberry Candy
- Linseed/Flax seed based Whole Grain Food Products
- Multi Fruit Juices
- Multi Grain Flour
- Multi Grain Instant Porridges
- Pasta
- Premix for Ready to Fry Potato Snacks
- Processing of Fig and Guava
- Processing of Watermelon into Flakes
- Production of Disease-free Jasmine Plant
- Pure Rose Syrup
- Ready Mix Formulation for *Missi Roti*
- Ready to Serve Processed Sugar Cane Juice
- Tomato Products

MACHINES

- Eight Frame Radial Honey Extractor
- Electric-cum-Battery Heated Uncapping Knife
- Evaporative Cold Storage
- Forced Circulation Solar Dryer
- Honey Heating-cum-Filtration Machine
- Lucky Seed Drill/Multi Crop Planter
- PAU Tensiometer
- Ring Cutter-A Handy Tool for Vegetable Plucking

- Solar Power Drip Irrigation
- Tubular Maize Sheller
- Vegetable Washing Machine

SOFTWARES

- Expert System for Precision Computation of Automatic Weather Station Data

TECHNOLOGIES

- Anti-Fungal Genes Endochitinase and Endoglucanase
- Aromatherapeutic Textile Product Technology
- Bacteriological Water Testing Kit
- Bio-fertilizers
- BB Xa38 Gene
- Eco Holi Colours
- Fruti CMS-FR System in *Brassica juncea*
- Genetically Diverse CMS Lines of *Brassica juncea* and *Brassica napus*
- Micro-propagation Protocols for Sugarcane, Potato, Mentha and Banana
- Mushroom Spawn
- Natural Vinegar from Sugarcane and Grapes
- Ogura CMS based Mustard Hybrid
- PAU Fruit Fly Trap
- Plant based Natural Dyes
- Protective Gloves for Okra Pluckers
- Red Wine from Punjab Purple Grapes
- Royal Jelly from Honey Bees
- Trichocards
(Biocontrol Agent- Trichogramma)

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Products and Technologies for Commercialization



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Technologies Commercialized

Aromatherapeutic Textile Products (2014)

The technology of aromatherapeutic textile products was licensed to M/s. NP Fresh Foods Private Limited, Ludhiana on non-exclusive basis.

Brinjal Hybrid PBH-3 (2013)

The parental lines of brinjal hybrid PBH-3 were licensed to M/s. Onkar Seeds Corporation, Khalchian, Amritsar on non-exclusive basis to produce and sell the seeds of PBH-3.

Consortium Bio-fertilizer (2015)

The PAU has granted the rights to M/s. OMSS3, Patiala for manufacturing and marketing of the Consortium bio-fertilizer developed by PAU on non-exclusive basis. The consortium bio-fertilizer is useful in sugarcane, wheat, maize, onion, potato and turmeric crop.

Forced Circulation Solar Dryer (2015)

The PAU has offered non-exclusive rights to M/s. Vishivkarma Solar Energy Corporation, Phillaur regarding the manufacturing and selling of the Forced Circulation Solar Dryer, developed by the university.

Gluten-free Atta (2013)

The PAU has licensed the formulation of gluten-free *atta* to the M/s. Agrineers Food Private Limited, Ludhiana on non-exclusive basis.

Honey Heating-cum-Filtration Machine (2013)

The PAU has provided the technology of honey heating-cum-filtration machine to M/s. AB Engineers, Ludhiana on non-exclusive basis to manufacture and market honey heating-cum-filtration machine.

Multi Grain Atta for Diabetics (2013)

The PAU has granted the rights to M/s. Agrineers Food Private Limited, Ludhiana to sell the multi grain *atta* for diabetics on non-exclusive basis. This product developed by PAU is very useful for diabetic patients.

Multi Grain Flour (2015)

The PAU has licensed the formulation of multi grain flour to Good Brands for a Healthy Life Private Limited, Pune on non-exclusive basis.

Multi Grain Instant Porridge (2015)

The PAU has granted the rights on non-exclusive basis to the M/s. Harsh International Foods, Ludhiana for manufacturing and marketing of the multi grain instant porridge developed by PAU.

Maize Hybrid PMH-5 and PMH-6 (2014)

The parental lines of Maize Hybrids PMH-5 and PMH-6 were licensed to M/s. Ashwariya Seeds India Private Limited, Telangana on non-exclusive basis to produce and sell the seeds of maize hybrids.

Poly Net House (2014)

The PAU has provided the technology of poly net house to M/s. Farming Solutions Private Limited, Ludhiana on exclusive basis for three years to manufacture and market Completely Knock Down (CKD) Kits.

Premix for Ready to Fry Potato Snacks (2015)

The PAU has provided the technology of premix for ready to fry potato snacks to M/s. White Gold Food Processing Private Limited, Jalandhar on non-exclusive basis.

PGPR Culture (Bio-fertilizer) (2015)

The PAU has granted the rights to M/s. Schiron Crop Sciences Incorporation, Abohar on non-exclusive basis for manufacturing and marketing of the Bio-fertilizer based on the PGPR Culture developed by PAU.

Trichoderma based Biopesticide (2013)

The PAU has licensed the technology for bio-control of foot rot of paddy using *Trichoderma harzianum* strain to M/s. International Panaacea Limited, New Delhi on exclusive basis to undertake further research and development, manufacture, and market the *Trichoderma* based bio-pesticide.

Vegetable Washing Machine (2013)

The technology of vegetable washing machine was licensed to AB Engineers, Ludhiana on non-exclusive basis to manufacture and market the machine.

Vegetable Varieties (2015)

The PAU has offered non-exclusive rights to produce and sell the seeds of Chilli hybrid CH-27, Brinjal Hybrids PBH-3 and PBH-4, Musk Melon Hybrid MH-27 and Onion Variety PRO-6 to Kalash Seeds Private Limited, Jalna.

Technologies for Commercialization

CROP VARIETIES

Cereals and Fodder Crops

- Basmati Rice: Punjab Basmati 2 and Punjab Basmati 3
- Maize:
 - Kharif Maize*: PMH 1, PMH 2, PMH 3, PMH 4, PMH 5, PMH 6, Parkash & Megha (Composite)
 - Spring Maize*: PMH 7, PMH 8 and PMH 10
 - Speciality Corn*: Punjab Sweet Corn 1, Pearl Popcorn and Baby Corn
 - Winter Maize*: PMH 9
- Oats: OL 10
- Pearl Millet Hybrid: PHB 2168 and PHB 2884
- Rice: PR 121, PR 122, PR 123 and PR 124
- Rye Grass: Punjab Ryegrass 1
- Sorghum: Punjab Sudax Chari 4
- Wheat: PBW 550, PBW 621, PBW 644, PBW 658, PBW 660, PBW 677 and PBW 725

Oilseeds

- Canola Quality Gobhi Sarson: GSC 6 and GSC 7
- Canola Quality Raya: RLC 3
- Indian Mustard: PBR 357
- Sunflower: PSH 996 and PSH 1962

Pulses

- Desi Gram: PBG 7
- Kabuli Gram: L 552
- Soybean: SL 958
- Summer Mung: SML 668 and SML 832

Vegetables

- Brinjal: PBH 3 and PBH 4
- Carrot: Punjab Carrot Red and Punjab Black Beauty
- Chilli: CH 27, Punjab Sindhuri and Punjab Tej
- Muskmelon: MH 27
- Onion: PRO 6