OBJECTIVES AND FACILITIES OF PILOT PLANT FOR FRUIT & VEGETABLE PROCESSING

OBJECTIVES:

- Serve as Business incubation center for budding entrepreneurs from both large scale industries as well as medium, small and micro enterprises
- 2. Provide a vital source for food companies that are just starting up or evaluating new process or product lines
- 3. Process lines of varying capacities to cater to the needs of the different sectors of the food industry (large, medium, small and micro enterprises).
- 4. Provide research facilities to the food industry for development of novel and innovative products and processes and modification of existing products and processes.
- 5. Used for evaluation of new ingredients, formulations and processes on a small and medium scale production and demonstration
- 6. Deliver product quality as best as possible as expected from a full scale production line
- 7. Provide training to the students and the industry personnel and the facility to work and conduct research in an operating production facility

Process Lines

- a. Storage and ripening facilities for fruits and vegetables
- b. Pulps, Purees and Juices,
- c. Squash, Cordial and formulated beverages
- d. Jams, Jellies and Marmalades
- e. Fruit Bars and fruit candy
- f. Aseptic processing lines for bag –box filling line
- g. Frozen foods

PRODUCT TYPES

- Fruit juices in bottles, cans and flexible packaging system
- Jams
- Jellies
- Marmalade
- Sauces such as tomato, and chili
- Soups
- Canned fruits and vegetables
- Baked Beans in tomato sauce

- RTS Beverages
- Syrups
- Squashes
- Cordials
- Fruit Pulp
- Tomato Puree
- Tomato Paste
- Tamarind Paste
- Fruit Juice concentrate
- Fruit bars
- Fruit candy and drops
- Fruit papads
- Tutti Fruitty
- Chutney
- Murabba
- Brined vegetables in can and bottles
- Glazed fruits and vegetables
- Desiccated and dehydrated fruits and vegetables
- Osmotic dehydration of fruits (limited shelf life fruits)
- Semi and Intermediate foods

List of equipments Available

Sr. No.	Name	Capacity	Number
1.	Steam jacketed boiling pan SS316	100 liters	2
2.	Pulper SS 304 with 0.5 HP motor	100 Kgs/hr	1
3.	Juice Extractors SS 304- with 1 HP motor, 1440 rpm	100 Kgs/hr	1
4.	Screw Press	-	1
5.	Colloid Mill	-	1
6.	Homogenizer	-	1
7.	Batch Mixing Tank with stirrer SS 316	-	1
8.	Steam Jacketed syrup making tank	-	1
9.	Bottle Washer – water jet type for new bottles – with loading and unloading platform	-	1
10.	Bottle filling machine-vacuum filler	-	1
11.	Coring and peeling machine for pineapple	-	1
12.	Slicing machine	-	1
13.	Cubing machine	-	1
14.	Bottle capping machine	-	1
15.	Bottle crimping machine	-	1

16.	Bottle labelling machine	-	1
17.	Plate and Frame Filter Press	-	1
18.	Plate Heat Exchanger	-	1
19.	Hydrostatic Sterilizer	-	1
20.	Autoclave	-	3
21.	Pouch Filler	-	1
22.	Form-Fill-Seal machine	-	1
23.	Can Reformer	-	1
24.	Can Filler	-	1
25.	Can seaming machine	-	1
26.	Conveyor Belt-12 ft length, 2 ft wide	-	2
27.	SS Slat Chain Conveyor-5 inch, 12 ft length	-	2
28.	Inspection Table SS304 top	-	3
29.	Tray dryer	100 kgs/hr	1
30.	Drum dryer	65 kgs /hr	1
31.	Freeze dryer	-	1
32.	Small IQF plant	100 kgs/hr	1 set
33.	Plate freezer	100 kgs/hr	1
34.	Spray dryer	100 LPH	1
35.	Ripening Chamber	1 tonne	1
36.	Cold storage	0.5 tonne	1
37.	Controlled Atmosphere Storage	1.00 tonne	1

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