

LAB.2 FOOD PROCESSING LAB

FPPT-123: Fundamentals of food processing & preservation

FPPT-203: Fruits & vegetable processing,

FPPT-293: Beverages Processing

FPPT-313: Meat, poultry & seafood processing

LIST OF MACHINERY & EQUIPMENT

S.NO	EQUIPMENTS/MACHINERY	SPECIFICATIONS	Qty
1.	DIGITAL ELECTRONIC BALANCE 4 DIGITS	- Automatic calibration with calibration weight - Capacity: 220 g - Power Supply: battery /mains 220 V, 50 Hz EUROPE, USA, UK, JAPAN	02
2.	ELECTRONIC TOP LOADING BALANCE up to 5 Kg	3 weighing units (g, ct, ozt,) - Capacity: 1000 g - 5000g - Power Supply: battery /mains 220 V 50 Hz EUROPE, USA, UK, JAPAN	04
3.	DIGITAL REFRACTROMETER	- Measurement range 0–95 % Brix (1.3330–1.5318 nD) - Accuracy 0.1 % Brix (0.00015 nD) EUROPE, USA, UK, JAPAN	06
4.	DEXTOP DIGITAL REFRACTROMETER	- Brix & refractive index - Brix range: 0.00 to 95.00% - Refractive index: 1-2nD - Accuracy: +0.03% EUROPE, USA, UK, JAPAN	01
5.	LABORATORY OVEN	- Capacity: 115 L - Temp range: 300°C - Temp fluctuation: 2°C - Electrical: 220 VAC, 50 Hz EUROPE, USA, UK, JAPAN	02

6.	PORTABLE pH METER	- Measurement Range 0.00...14.00 pH 0 °C...100 °C - EUROPE, USA, UK, JAPAN	05
7.	PORTABLE TDS METER	- Display backlight liquid crystal - Input Din White Mini- EUROPE, USA, UK, JAPAN	02
8.	RAPID MOISTURE ANALIZER	- Capacity: 110 g - Readability: 0.1% / 0.01g - Sample Size: 3g to 6g typical, 0.5g min. - Timer: 1 - 6minutes, - Heating Technology: Infrared (no glass) - Temperature Range: 50°C to 160°C in 5° increments - Power: 220 VAC, 50/60 Hz JAPAN,USA,EUROPE,UK	01
9.	DEXTOP pH METER	- Measurement Range: 2.00...16.00 pH. - Temperature Range: 5°C...110 °C. - Calibration Buffer: 3 redefined buffer group. EUROPE, USA, UK, JAPAN	01
10.	DEHYDRATOR	- Dimension(L*W*H): 1700x1000x2300mm - Machine materials:: stainless steel - capacity: 20kg/time pilot scale Local Made	01
11.	DOUGH PROOFER	- Weight Capacity:- 40 lbs - Height:- 60 inches - Seat depth: - 10 Inch. Local Made	01
12.	ROTARY WASHER	Stainless steel materials.	01

		• Mild steel angle/channel frame. • Water jet spray system, • Drum Rotating arrangement with Motor and Gear Box • Washing of Vegetables, fruits. Local Made	
13.	ABRASIVE PEELER	• Material: Stainless Steel • Capacity : 120~200 kg/hr • High Power Electric Motor • Washing Arrangement Local Made	01
14.	LYE PEELER	• Compartments:- 2 Nos. • Basket:- (18''*24'') • Rinse Basket:- (18''*18'') Local Made	01
15.	MANGO PULPER	• Load:- 8-10kg • Temperature:- 85°C • High Power Electric Motor Local Made	01
16.	FINE PULPER	• 0.3, 0.4, 0.5 mm sieves • Motor 2HP • Full SS Body • Capacity 10 Kg Local Made	01
17.	ROSE HEAD MACHINE	• Temperature:- 80°C • Drum at atmospheric pressure • Full SS Body • High Power Electric Motor Local Made	01
18.	MINCER	• Electric Motor Attachment • Inner Groves With Stainless Steel Metal • Coarse and fine sieves Local Made	01
19.	JUICE EXTRACTOR	• Juicer (220V) • Capacity: 500ml -1000ML • Easy clean design • Juice level indicator	02

		• Pulp and seed separator • Full SS Body • High Power Electric Motor Local Made	
20.	JUICE EXTRACTOR MANNUAL	• Stainless Steel Metal • With Sieves • Large size Local Made	02
21.	CAPPING MACHINE	• Lid-tightening speed 20bottles/minute • Bottle shape cylinder and square (flat) • Bottle height 30-300mm China Made / LOCAL	01
22.	SLICER MACHINE	• Cutting/slicing/Shredding machine for fruit and vegetables • Capacity: 10-20 Kg • Construction: SS parts • Attachments: for slicing/Dicing/Mincing/shredding China/ Local made	01
23.	JUICE BLENDER	• Juicer and blender all in one • 2 speeds and pulse • Voltage: 220 V • Blender jar • Juice jug • Mill GERMANY,UK,JAPAN,USA,EUROPE	01
24.	DOUGH MIXING MACHINE	• Machine Material: Stainless Steel • Capacity: 5 Kg • Speed Bowl: 250-300 RPM • Dough and batter mixing hooks • Dismantling of bowl for cleaning • Transmission: Gear& Belt UK,GERMANY,USA,JAPAN	02
25.	SIEVING SYSTEM	• Sieving Size:- 20,90,200 Micron • Bronze Metal UK,USA,JAPAN,EUROPE	01
26.	EXHAUST BOX	• Construction: Steam fitting, central	01

		valve, speed control system, sanitary design, • Frames and cover SS, Chain Cover SS, • Length: 12-14ft • Width: 1-1.5ft Local Made	
27.	STEAM BLANCHER	• Capacity: 20 Kg • SS material • Fruits / vegetables blanching Local Made	01
28.	REFRIGERATOR	• Net Capacity: 240L, Insulation (mm): 80, • Temperature range: -10 to 20 °C, • Max. Ambient temp: 25 °C, • Power: 220V, 50Hz, • Power failure alarm • 2 small in back, Refrigerant: R507 EUROPE, USA, UK, JAPAN	01
29.	GAS FIRED BAKING OVEN	• Digital display of temperature • Timer • Bakery gas deck oven Layer:1,2,3,4 Trays:3,6,9,12 Layer dia (LxWxH): 1300x750x230mm Source: Gas, Electric Local Made	01
30.	CARBONATION UNIT	• Capacity : 20 L • Pilot scale • For glass and PET bottles China/Local Made	01
31.	CANNING LINE	Complete unit	01
32.	MICROWAVE OVEN	Capacity 20 -30 Litre Voltage: 220 Digital Control	01
33.	FRENCH FRIED CUTTER	• Lab scale • Manual	01
34.	FERMENTER OR BIOREACTOR	• Lab scale	01

35.	STUFFER	• Lab Scale	01
36.	LINKER	• Lab Scale	01
37.	SMOKER	• Lab Scale	01
38.	MEAT SLICER	• Lab Scale • Manual	01
39.	VACUUM SEALER	• Lab Scale	01
40.	BARBECUE COUNTER	• Lab Scale	01
41.	GRILL MACHINE	• Lab Scale	01
42.	POACHING MACHINE	• Lab Scale	01
43.	FOOD FACTORY UNITS	• Mixer • Grinder • Blinder • Juicer • V220	02
44.	CHOOOPER	• lab scale • S.S	01
45.	FRIER	• Capacity 5 -10 litre • V 220 • Gas & Electric connections • Digital display	01
46.	ELECTRIC KETTLE	• Lab scale • Capacity: 3 Litre	01
47.	VACUME FLASK	• Capicity : 3 Litre • Lab scale	01
48.	`COFEE MACHINE	• Lab scale • V220	01