

## Specification

List of laboratory items required for Hamdard Vocational Knowledge Centre,  
Moradabad.

### 1. BAKERY AND CONFECTIONARY TECHNOLOGY

S.NO.	NAME OF INSTRUMENTS	QUANANTITY	Specifications
1.	Baking oven	1 Pcs	Electric 1 deck, 2 tray oven, 34*25 inches, 0-400°C,
2.	Microwave oven	1 Pcs	35L, 900-1000W, with grill
3.	Planetary Mixer	1 Pcs	Multifunction (whisking balloon, beater attachment, dough hook), 4L bowl, 800W
4.	Dough maker	1 Pcs	38 * 22* 24 cm, 3.2 kg, 3L capacity, 650W
5.	Electronic Whisker	2 Pcs	17.8 x 7.1 x 12.5 Centimeters, 250 W, no. of speed 7, 2 pins
6.	Vernier caliper	2 Pcs	0-780mm, 0.02 mm,
7.	Mesh size 40, 60, 100 sieve	2 Pcs each	SS sieve
8.	Baking Tray	4 Pcs each	8.5x13.4-inch, 10x14.5-inch, and 11.5x17-inch, pack size
9.	Shape Molds for cake	7 Packets	18,20 & 22 Cm diameter, pack size, non-stick, OTG and microwave safe.
10.	Baking pan	5 Pcs	Bread pan, square mold
11.	Shape cutter for cookies	2 pack	Different shapes full pack
12.	Baking spatula (silicon)	6 Pcs	Square shape, 26*2 inch, 100g
13.	Bowl for dough (large)	2 Pcs each	2800ml, 2000ml, 1200ml, 800ml ml, plastic material
14.	Piping bags and Nozzle (different shapes)	4 Set	Full pack of different sizes
15.	Butter paper	1 Pack	5-6 pack of 100m
16.	Parchment paper	1 Pack	5-6 pack of 100m
17.	Foil paper	1 Pack	5-6 pack of 100m
18.	Handheld whisker	1 Pcs	Stainless steel

19.	Fork	2 Set	Medium size
20.	Chef knives	2 Pcs	20 cm length, 3.8 cm width
21.	Table Spoon	1 Set	Medium size
22.	Cake turn table	1 Pcs	30 cm diameter
23.	Icing knives/Spatula set	2 Set	9, 11, 13 inch
24.	Polythene for Shrink pack(roll)	5-6 Pack	100m roll
25.	Measuring cup	1 Pcs	7.5 ml to 250 ml, full set

## 2. FRUITS AND VEGETABLE TECHNOLOGY

S.NO.	NAME OF INSTRUMENTS	QUANTITY	SPECIFICATION
1.	Refractometer (hand-held) All ranges	2 Pcs	Precision hand refractometer Master-500 0-90% Brix
2.	Crusher	1 Pcs	2 hp motor
3.	Pulper	1 Pcs	2 hp motor
4.	Colorimeter(portable)	1 Pcs	Lab Junction Colorimeter (Digital Photo Colorimeter),Model:LJ-312
5.	Stainer	1 Pcs	Vessel Crew Stainless Steel Soup, Juice, Milk & Tea Strainer for Kitchen use Soup Strainer Big Size
6.	Tray dryer	1 Pcs	Stainless Steel Food Dehydrator with 6 Trays, Commercial Fruit Dryer 400Watt Electrical Heater

7.	Viscometer/Bostwick consistometer	1 Pcs	75ml Overall length - 17 inches Overall width 3-1/4inches
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### 3. MEAT, POULTRY & FISH TECHNOLOGY

S.NO.	NAME OF INSTRUMENTS	QUANTITY	SPECIFICATION
1.	Mincer	1 Pcs	2HPMotor
2.	Sausage making machine	1 Pcs	Material: Stainless Steel, Silicone  Capacity: 4L / Machine Diameter: 12 cm  Nozzle Sizes: 1.5 cm, 1.9 cm, 2.2 cm, 2.5 cm  Package Contents:  1 x Sausage Making Machine  4 x Nozzles
3.	Electric Grill	1 Pcs	4 Slice Grill & Bbq with Timer 2000-Watt  12.1 x 27.5 x 31.9 Centimeters
4.	Candling Torch	1 Pcs	Fenix E09R LED C- Type

#### 4. DAIRY TECHNOLOGY

S.NO.	NAME OF INSTRUMENTS	QUANTITY	Specification
1.	Gerber centrifuge	1 Pcs	RG - Gerber Milk Testing Electric Centrifuge Machine Motorized 8 Test  Size – Medium
2.	Cream separator	1 Pcs	Made in india 60LPH Electric 8liter (APPROX)
3.	Refrigerated centrifuge	1 Pcs	
4.	Lactometer	1 Pcs	Nicolette Lactometer for Checking Milk Purity with in a Minute   Milk Testing kit Home   (Set of 2 Lactometer)
5.	Butyrometer	1 Pcs	For milk
6.	Milk Pipettes with bubbler	1 Pcs	0.75ml,1ml, 5ml,10ml
7.	Milk can	1 Pcs	Stainless steel 2litre,5litre
8.	Bucket ss (10litre)	2Pcs	Stainless steel 5lire (10litre)
9.	Cheese vat tray	2 Pcs	Stainless steel

#### 5. COMMON LIST OF EQUIPMENTS/UTENSILS

S.NO.	NAME OF INSTRUMENTS	QUANTITY	SPECIFICATION
1.	Hot air oven	1 Pcs	Dimension-18x18x18 inch Digital Temp Control- up to 250C Power Supply- 220 Volt
2.	Muffle furnace	1 Pcs	Dimension- 12x5x5 inch Temp Range- up to 1100C Power Supply- 440 Volt

3.	pH meter	1 Pcs	Dimension- 210x188x60mm Calibration – up to 5 points (pH 4.01, 7.00, 10.01,) Temp Range- up 0 to 105deg.C Power Supply- 220Volt
4.	Kjeldhal assembly	1 Pcs	Heating mantle, Flask Capacity- 500ml
5.	Fat estimation assembly	1 Pc	Capacity-250 ml Range- 900 watt
6.	Crude fibre assembly *(costly items)	1 Pcs	
7.	Desiccator & Silica	1 Pcs	Dimension- High grade Glass Material (210MM) with Cover knob & Porcelian plate Dessicant Silica Gel – 1kg
8.	Refrigerator	2 Pcs	260 Litre
9.	Thermometer calibrated	10 Pcs	Grade A Range -10 ...+110
10.	Pasteurizer	1 Pcs	Capacity – 500 ltrs
11.	Test tubes	4 Box	Size- 12x60mm
12.	Test tube holder	4 Pcs	
13.	Volumetric Flasks (100ml, 250ml, 500ml)	10 Each	(100ml, 250ml, 500ml)
14.	Measuring cylinder(50ml, 100ml, 250ml, 500ml)	4 Each	(50ml, 100ml)

15.	Funnel (small, Large)	4 Pcs	(Small, Large)
16.	Reagent Bottles (100ml)	12 Pcs	(100 ml)
17.	Beakers( 1L, 2L)	4 Each	(1L, 2L)
18.	Burettes	5 Pcs	(25ml,50 ml)
19.	Pipettes (0.5 ml, 1 ml, 2 ml, 5 ml, 10 ml)	2 Each	(0.5 ml, 1 ml, 2 ml, 5 ml, 10 ml)
20.	Sampling bottles	10 Pcs	500 ml,1LTRs
21.	Petri plate dish	1 Pack of 36 Pcs	Size- 90x15mm
22.	Stainless steel Bucket	1 Pcs	5 ltrs, 10 ltrs
23.	Heavy bottom kadhai(Wok) (SS)	4Pcs	5 litres
24.	Bhagona(S.Steel)- 5L	2 Pcs	5 litres
25.	Bhagona(S.Steel)- 10L	1 Pcs	10 litres
26.	Frying spoon	4 pcs	Wooden & SS
27.	Turner Large S.S.	2 Pcs	Large size
28.	Handle Tong	2 Pcs	Stainless steel, Rust free
29.	Spatula	4 Pcs	Stainless steel
30.	Brush set (silicon)	4 Pcs	For glassware cleaning
31.	Roller pin	1 Pcs	10 inch
32.	Marble board	1 Pcs	
33.	Bowl(Glass, food grade plastic)	10 Pcs	Glass, food grade plastic
34.	Heat Gloves(oven)	4 Pcs	
35.	Muffle Furnace glove	2 Pcs	
36.	Zip lock pouches	1 Pack of 100 Pcs	
37.	Tissue paper – Roll- 1 large packet	10 Pack	
38.	Burner	1 Pcs	Laboratory Burner
39.	Muslin cloth	4 Meter	
40.	Mortar & pestle (Stone)	2 Set	Stone
41.	Ladles	4 Pcs	Wooden & Stainless Steel each
42.	Knives	4 Pcs	Stainless Steel
43.	Peeler	2 Pcs	Stainless Steel
44.	Pickle jar	6 Pcs	500 ml each

45.	Shallow pan	2 Pcs	Nonstick Teflon coating
46.	Frying pan	4 Pcs	Nonstick Teflon coating
47.	Blotting paper	1 Pack of 50 Pcs	
48.	Nitrile gloves	4 Pack	
49.	Magnetic stirrer	1 Pcs	150 x 220 x 150 mm 1 Litre
50.	Wire gauge	1 Pcs	
51.	Skewer Rods (Kebab sticks)	1 Set of 10 Pcs	SS
52.	Dusting Cloths	2 Dozen	
53.	Glass Stirrer	4 Pcs	
54.	Weighing balance 220g, 5kg	1 Pcs	220g, 5kg
55.	Glass plates	5 Pcs	
56.	Ordinary filter paper	2 Pack of 100 Pcs	Size: 12.5cm
57.	Whatman filter paper 42 No.	2 Pack of 100 Pcs	
58.	Filter paper (1 & 1.25)	1 Each	Grade No 1- Size 110mm
59.	Hair cap	250 Pcs	
60.	Masks	500 Pcs	
61.	Aprons	8 pc	
62.	Teepol cleaner	20 L	
63.	Cleaning brushes for glassware	Whole set	
64.	Gas stove	2	3 burner gas
65.	Lighter	4	
66.	Cylinder	2	
67.	Regulator and pipe for stove	2 pc each	LPG hose pipe 5 feet
68.	Dropper	1 pack	Plastic
69.	Watch glass	1 set	Thickness- 3 mm
70.	Volumetric flask (1000ml)	1 set	1000 ml
71.	Kjeldhal flask	2 set	With socket Capacity = 500 ml
72.	Multi-functional Food processor		Grinder mixer juicer
73.	Distillation assembly	1 set	15 lt.
74.	Working station with 2 sink	1 set	As per lab

