

## INTRODUCTION

*We are introducing ourselves as one of the leading Manufacturer, Supplier and Exporters of Laboratory Equipments for Research Laboratories, Educational Institutes, Hospitals & Industries etc.*

*For about 43 years, We are offering quality products at very competitive prices. Our specialities lays in the field of :*

- ★ *Laboratory Equipments & Instruments.*
- ★ *Oil & Petroleum Testing Instruments.*
- ★ *Cement & Soil Testing Instruments.*
- ★ *Heating and Cooling Cabinets*
- ★ *Deioniser Plants & RO Plants*
- ★ *Paper Testing Instruments.*
- ★ *Meteorological Instruments.*
- ★ *Pharmaceutical Instruments.*
- ★ *Paint Testing Instruments.*
- ★ *Pharmacology Instruments.*
- ★ *Digital Instruments.*
- ★ *Voltage Stabilizers.*





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- KI 101** **Vaccum Rotary Evaporator** (BUCHI type) all Glass, Cap. 1 Lt. Variable speed with Accessories including Quick Action Jack but without Micro Attachment ☹
- KI 101 (a)** **Vaccum Rotary Evaporator** Specs. same as above but with Temp. Controlled Water Bath (Double walled) ☹ Cap. 1 Lt.
- KI 101 (b)** — do — Cap. 3 Lt.
- KI 101 (c)** — do — Cap. 5 Lt.
- KI 102** **Vaccum Rotary Evaporator** with Motorised Lifting, Digital RPM indicator and water bath fitted with Digital temp. controller. ☹
- KI 102 (a)** **Table Top Chiller (Circulator)** : Double walled, outer body made of MS duly powder coated, inner made of SS. It is fitted with CFC free Refrigeration system. Temp. Range: -10°C to + 100 °C controlled with Digital Temp. controller. Chiller is also fitted with circulation pump for external circulation. Cap. 10-15 Lts ☹
- KI 102 (b)** Same as above but outer also made of SS
- KI 103** **Spare Accessories for KI 101 & 102:**
- (1) Micro attachment for item No. 101
  - (2) Condenser made from Borosil Glass double coiled
  - (3) Rotation Flask of Borosil Glass 1lt. with standard socket
  - (4) Collection Flask with spherical S-35 joint
  - (5) Rotor Corning Glass B-29 or B-24 or B-29
  - (6) Clip for holding Ball jointed Flask S-35
  - (7) Clip for holding B-29 Flask
  - (8) Digital RPM Meter
- KI 104** **Laboratory Jack** with load Platform 20x15 cm. or 20x20 cm. closed height 10 cm. open height 20 cm. adjustable at any height
- KI 104 (a)** —do— but size 10x15 cm.
- KI 105 (a)** **Vaccum Pump Single stage** mounted on a CI Base Plate, coupled to Fractional H.P. Motor, V-belt driven, fitted with Belt guard, Ultimate vacuum of 0.01 mm. Hg- Column Free Air Displacement

- |     |                      |      |
|-----|----------------------|------|
| (a) | 25 litres H.P.Motor  | 0.25 |
| (b) | 50 litres H.P.Motor  | 0.25 |
| (c) | 75 litres H.P.Motor  | 0.33 |
| (d) | 100 litres H.P.Motor | 0.50 |
| (e) | 150 litres H.P.Motor | 0.50 |
| (f) | 200 litres H.P.Motor | 0.50 |
| (g) | 300 litres H.P.Motor | 1.00 |
| (h) | 500 litres H.P.Motor | 1.50 |

- KI 105 (b)** **Vaccum Pump Double Stage** Specs. same as KI 105 (a) but Ultimate Vaccum 0.005 mm.Hg-Column Air Displacement

- |     |                    |      |
|-----|--------------------|------|
| (a) | 25 Lit. H.P.Motor  | 0.25 |
| (b) | 50 Lit. H.P.Motor  | 0.25 |
| (c) | 75 Lit. H.P.Motor  | 0.33 |
| (d) | 100 Lit. H.P.Motor | 0.50 |
| (e) | 150 Lit. H.P.Motor | 1.00 |
| (f) | 200 Lit. H.P.Motor | 1.00 |
| (g) | 300 Lit. H.P.Motor | 1.50 |
| (h) | 500 Lit. H.P.Motor | 2.00 |

- KI 106 (a)** **Vaccum cum Pressure Pump** 35 Lt.(Monoblock)
- KI 106 (b)** **Vaccum cum Pressure Pump** 75 Lit.
- KI 106 (c)** **Vaccum Pump Oil Free Diaphragm Type Single Head 25Lt/min. with Moisture Trap Double Head 45 Lt/min. Double Head 75 Lt/min.**

- KI 106 (d)** **Accessories for vacuum pumps:**
- (a) Vaccum Pressure Guage (2.5" dial type) with adopter
  - (b) Vaccuscope with Mercury 1 mm to .001 mm (McLeod Guage)
  - (c) Air Blast
  - (d) Non return valve
  - (e) Vaccum Guage/Pressure guage with regulator
  - (f) Moisture Trap





- KI 119 Lab Ball Mill** For mixing & grinding, Electrically Operated with F.H.P. motor and SS balls, Jar made of aluminium, Ⓢ
- (i) Cap. of Jar 1 Kg.
  - (ii) —do— but 2 Kg.
  - (iii) —do— but 5 Kg.
- KI 119(a)** (i) Specifications same as KI 119 but with SS Jar 1 Kg.
- (ii) 2 Kg.
  - (iii) 5 Kg.
  - (iv) 10 Kg.
- KI 120 (a) Rocker Shaker** variable speed with Timer 12" x 16" Ⓢ
- (b) —do— 12" x 12"
- KI 121 (a) Three bench Sterility test unit for 47mm dia, made of SS 316**
- (b) Six bench Sterility test unit for 47mm dia, made of SS 316**
- KI 122 Laboratory Emulsifier :** with 1/20 H.P. Motor & Speed Regulator Ⓢ
- KI 123 (a) Emulsifier:** Homogenizer with heavy duty 1/4 H.P. Motor
- (b) —do— with 1/2 H.P. Motor Ⓢ
- KI 124 (a) Waring Blender (Grinding Machine)** Braun Type Cap. 1 Lit.
- (b) -do- but fitted with Timer Switch up to 1 hour
- KI 125 Shaking Machine Wagner's For Bottles/Flasks:** Shaking frame mounted on spindle with pulley for power drive and spindle is supported on ball bearings mounted on heavy metallic base, fitted Ⓢ with 1/4 H.P. motor, Speed 60 to 75 RPM.
- (a) 6 Bottles of 500ml/1 Lt. in 2 Rows
  - (b) 12 Bottles of 500ml/1 Lt. in 2 Rows
- KI 126 Shaking Machine (Wrist Action):** Rugged construction with two side arms for holding flasks of cap 125ml to 1000 ml. fitted with F.H.P. motor, variable speed, cord & plug to work on 220 V, 50 Hz. Ⓢ
- (a) For 4 Flasks
  - (b) For 8 Flasks
- KI 126 (c) Timer (German)** for above 0-60 minutes
- KI 126 (d) Spare Top** Platform for wrist action shaker to hold 4 flasks/Bottle

- KI 127 Rotary Shaker Horizontal Table Top Model** having platform fitted with Neoprene rubber discs to hold flasks. Platform mounted on ball bearing crank shaft to give an orbital motion. Ⓢ
- The Entire assembly is mounted on a heavy Angle iron frame which houses a motor coupled by means of V belt with pitch pulley. Suitable to work on 220V, AC
- (a) Platform size 30x30 cm made of MS complete with DC motor & variable speed for 9 flasks of 250 ml.
  - (b) Platform size 45x45 cm with variable speed for 16 flasks of 250 ml.
  - (c) Platform size 65x65 cm with 1/4 H.P. Motor with variable Speed for 16 Flasks of 500/1000 ml. or 25 Flasks of 250 ml.
- KI 128 (a)** Platform size 100x100 cm Variable Speed for 49 flasks of 100/250 ml. or 25 flasks of 500 ml. or 16 flasks of 1000 ml.
- (b) —do— but with SS platform & Lotus clamps
- KI 129(a)** —do— Heavy Duty Platform size 120x120 cm Variable Speed with 1 H.P. DC Motor for 81 flasks of 100 ml. or 64 flasks of 250 ml. or 36 flasks of 500 ml. or 25 flasks of 1000 ml.
- (b) —do— but with SS platform & Lotus clamps
- KI 130 (a) Rotary Shaker Horizontal** Platform size 150x150 cm with 2 H.P. DC Motor for 120 flasks of 100 ml., or 81 flasks of 250 ml. or 64 flasks of 500 ml., or 49 flasks of 1000 ml. Ⓢ
- Variable Speed
- (b) —do— but with SS platform & Lotus clamps
- Optional Accessories :**
- KI 130 (a)** Extra platform size 45x45 cm  
Extra platform size 60x60 cm  
Extra platform size 100x100 cm  
Extra platform size 150x150 cm
- (b) Digital RPM Indicator
  - (c) Digital Timer



- KI 131 (a) Shaking Machine Kahn:** It is used for shaking Racks, bottles/flasks of different capacity Suitable to work on 220V, AC & covered body 20"x13"x4" with DC motor & Dimmerstat for variable speed ☺
- KI 131 (b) Shaking Machine Kahn:** Platform size 31"x17"x3" variable speed & covered body with DC Motor ☺
- (c) Shaking Machine Kahn:** Platform size 36"x18"x4" variable speed & covered body with DC Motor ☺
- KI 132 Hybridisation Oven:** Outer made of MS and inner made of SS. Fitted with glass window. Variable speed: 4-20RPM. Temp. Range: Ambient to 70 °C controlled with Digital Temp. controller. Suitable to hold 6 bottles of 200 x 65 mm or 24 tubes of 5 ml. ☺
- Optional :**  
Digital RPM Indicator
- KI 133 (a) Sieve Shaker Gyrotory:** It carries 7 sieves of 8" dia, Electrically operated fitted with 1/4 H.P. motor. It provides Gyrotory motion. ☺
- (b) Specifications same as above but** for 12" dia sieves
- KI 134 (a) Rotap Sieve Shaker:** Specifications same as KI 133 but in addition to gyrotory motion, tapping motion is also provided with a hammer from the top. Suitable for 8" dia sieves ☺
- KI 134 (b) Sieve Shaker Table top:** Variable speed suitable for 8" Sieves
- KI 134 (c) Sieve Shaker Table top:** Variable speed suitable for 12" Sieves
- KI 135 (a) Wet Sieve Shaker:** It is used to carryout wet analysis of material. Complete with 1/4 H.P. motor, holder to carry 7 sieves of 8" dia. Electrically operated suitable to work on 220V, AC.
- Single Set**  
**Double Set**  
**Four Set**
- (b) Timer** for item No.KI 133, 134 if required at extra cost of
- (c) Spare Timer** fitted in steel cabinet 0-60 minutes for above
- (d) Spare Regulator** fitted with steel cabinet, indicator, cord and plug
- (e) Adapter** for 12" Dia Sieves

- KI 136 (a) Test Sieves** 8" Dia Brass Jointless frame, BSS/ASTM/I.S.S.  
6-100 SS mesh (any size)
- |          |              |              |         |
|----------|--------------|--------------|---------|
| 120 mesh | 140/150 mesh | 170 mesh     |         |
| 200 mesh | 230/240 mesh | 270/300 mesh |         |
| 325 mesh | 350 mesh     | 380/400 mesh | 500 BSS |

**Lid & Pan**

- KI 136(b) Test Sieves** 12" Dia Brass Jointless frame, BSS/ASTM/I.S.S.  
6-100 SS mesh (any size)
- |          |              |              |         |
|----------|--------------|--------------|---------|
| 120 mesh | 140/150 mesh | 170 mesh     |         |
| 200 mesh | 230/240 mesh | 270/300 mesh |         |
| 325 mesh | 350 mesh     | 380/400 mesh | 500 BSS |

**Lid & Pan**

- KI 136 (c) Test Sieve** for course aggregate 30 cm dia. GI frame, any mesh size
- KI 136 (d) Test Sieve** for course aggregate 45 cm dia. GI frame, any mesh size
- KI 136 (e) Lid & Pan GI 30 cm**
- KI 136 (f) Lid & Pan GI 45 cm**
- KI 137 Magnetic Stirrer with Hot Plate with** S.S. Top & teflon stirring paddles. ☺
- |               |          |          |         |
|---------------|----------|----------|---------|
| Cap.10 litres | 5 litres | 2 litres | 1 litre |
|---------------|----------|----------|---------|
- KI 138 Magnetic Stirrer without Hot Plate** with S.S.Top & teflon stirring paddles. ☺
- |               |          |          |         |
|---------------|----------|----------|---------|
| Cap.10 litres | 5 litres | 2 litres | 1 litre |
|---------------|----------|----------|---------|
- KI 139 TeflonStirringPaddles** for above size
- |      |    |      |    |
|------|----|------|----|
| 0.5" | 1" | 1.5" | 2" |
|------|----|------|----|



- KI 140 Multi magnetic Stirrer with Hot plate with S.S. Top** ☺
- (a) 2 Stirrers of Capacity 2 litres
  - (b) 4 Stirrers of Capacity 2 litres
  - (c) 6 Stirrers of Capacity 2 litres
- KI 141 Vortex Mixer (Test Tube Mixer)** with variable speed ☺
- KI 141 (a) Vortex Mixer** but having touch on/off switch ☺
- KI 141 (b) Vortex Mixer** with rectangular platform for tubes & vials along with attachment of test tube shaking ☺
- KI 142 (a) Laboratory Stirrer Heavy Duty:** Unit is mounted on a heavy CI base fitted with SS stirring rod, 1/20 H.P.Motor & Speed Regulator. Max Speed: 4000 RPM ☺
- (b) –do– but with 1/8 H.P.Motor ☺
  - (c) **Laboratory Stirrer Heavy Duty** with heavy duty and High Speed 1/4 H.P. Remi Motor & with Speed Regulator
  - (d) – do –but with 1/2 H.P.Motor
- KI 143 Laboratory Gear Stirrer** with 1/20 H.P.Motor with Auto Transformer, speed Regulator, Drill Chuck & SS stirring rod. ☺
- do– but with 1/8 H.P. Motor
  - do– but with 1/4 H.P. Motor
  - do– but with 1/2 H.P. Motor
- KI 144 Rotamantle :** It is dual facility equipment with Heating mantle and stirring facility. Suitable for R.B. flasks Cap. 500 ml. ☺
- Cap. 1 Lt
  - Cap. 2 Lt.
  - Cap. 5 Lt.
- KI 145 Jar testing (Flocculator) :** With illuminated base having fluorescent tube fitted below translucent plastic plate. It consists of Geared 1/20 H.P. motor, variable speed from 10 to 100 RPM with speed control. Fitted with SS stirring rods, electrically operated suitable to work on 220 V, AC. (Without Glass Beakers) ☺

- 1) with 2 stirrers Cap. 1 Lt./2 Lt.
  - 2) with 4 stirrers Cap. 1 Lt./2 Lt.
  - 3) with 6 stirrers Cap. 1 Lt./2 Lt.
- KI 145 (a)** Digital RPM Indicator for above
- KI 146 (a) Bottle Washing Machine** Fixed Speed
- (b) –do–but with variable speed
  - (c) **Bottle Washing Machine** with G.I.Sheet Soking Tank size 30"x20"x12" with 2 Brushes & 12 Rinsers with drill chuck & 1/4 H.P. Motor
  - (d) – do – size 30"x20"x18"
- KI 146 (e) Bottle Washing Machine** but with S.S. Tank.  
Size : 30"x20"x12"  
30"x20"x18"
- KI 147 (a) Laboratory Heating Plate:** 8"Dia with sealed element 1 KW, 230 V AC fitted with E.R ☺
- KI 147 (b)** –do– but with S.Steel Top
- KI 148 (a) Laboratory Coil Type Heating Plate** single coil 1.2 KW with 3 point Control Switch ☺
- (b) – do – with Energy Regulator
- KI 149 (a) Lab. Heating Plate** Rectangular with Cast Iron Top, Body made of MS duly Powder coated. Temp. upto 350 °C. ☺
- With Thermostate / E.R.**
- 25x30x15 cm 1.2 KW
  - 25x40x15 cm 1.5 KW
  - 30x45x15 cm 2.0 KW
  - 45x60x15 cm 3.0 KW
- KI 149 (b) Spare Elements for above:**
- 25x30x15 cm 1.2 KW
  - 25x40x15 cm 1.5 KW
  - 30x45x15 cm 2.0 KW
  - 45x60x15 cm 3.0 KW



- KI 149(c) Digital Temperature indicator cum controller**  
**KI 150 Slide Warming Table** with Temp. Control up to 60 degreeC fitted with E.R./ Thermostate S.S. Top ☺  
**Size:** 225x300x150 mm  
 250x400x150 mm  
 300x450x150 mm  
 600x 450x150 mm
- KI 151 Dry Bath Incubator:** Fitted with Heating block of 24 holes of 12.7 mm dia Temp. Range: Ambient to 90 °C controlled with Digital Temp. controller and Digital Timer upto 999 minutes.
- KI 152 Heating Mantles: Temp. upto 350°C: with Energy Regulator.**
- | Flask Capacity | Rating Watt |
|----------------|-------------|
| 50/100 ml.     | 60          |
| 250/500 ml.    | 200         |
| 1000 ml.       | 300         |
| 2000 ml        | 450         |
| 3000 ml.       | 500         |
| 5000 ml.       | 600         |
| 10 lit.        | 2x500       |
| 20 lit.        | 3x600       |
- KI 153 Heating Mantles Multiheater: with Energy Regulator.**
- | Flask Cap.    | Watt  |
|---------------|-------|
| 50ml. 250ml.  | 200   |
| 100ml. 500ml. | 200   |
| 250ml. 1 Lt.  | 300   |
| 500ml. 2 Lt.  | 450   |
| 500ml. 3 Lt.  | 2x250 |
| 1 Lt. 5 Lt.   | 2x300 |
- KI 154 Kjedahl Distillation Unit:** It is used for distillation purpose for 300/500 ml. cap. flasks. Complete with condenser and rack. (without Glass Parts & Clamps) Mantle/Hot plate Type fitted with E.R. ☺

Unit of 3 test  
 Unit of 6 test

- KI 155 Extraction Heater Soxhlet:** Suitable to heat soxhlet flask of 50-500 ml Main heating unit is provided with two horizontal & two vertical rods with adopters and screw to hold the flasks. (Without Glass Parts & ☺ Clamps) Mantle Type (a) Unit of 3 Test with E.R.  
 (b) Unit of 6 Test with E.R.
- KI 156 (a) Kjedahl Digestion Unit:** It has casted heating block to accomodate 40/20/15 Digestion tubes of 75 ml. cap. Temp. controlled by Digital Temp. controller ☺
- KI 156 (b)** Glass Tubes for above 75 ml. 25 mm dia  
**KI 156 (c)** Glass Tubes for above 75 ml. 38 mm dia  
**KI 156 (d)** Glass Tubes for above 75 ml. 42 mm dia
- KI 157 Kjedahl Digestion Unit** fitted with E.R.Heater/Mantle type (Without Glass Parts & Clamps) ☺  
 Unit of 3 test  
 Unit of 6 test
- KI 158 Micro Kjedahl Digestion Unit** (without Glass Parts & Clamps) Mantle Type Unit of 6 Test with E.R. ☺
- KI 159 (a) Kjedahl Digestion & Distillation Unit** ☺  
 Combined, Mantle Type (without Glass Parts & Clamps)  
 Unit for 3 test with E.R.  
 Unit for 6 test with E.R.
- KI 159 (b)** Glass Parts & Clamps for 3 tests (Set)  
 for 6 tests (Set)
- KI 160 Water Bath Rectangular** (Single Wall Electrical) made of S.Steel  
 (a) 25x30x10 cm 6 holes of 7.5 cm dia. ☺  
 (b) 30x30x10 cm 9 -do-  
 (c) 35x40x10 cm 12 -do-



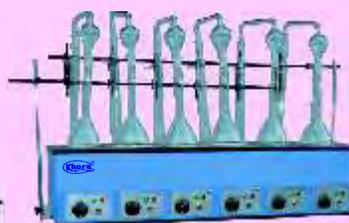
KI-150



KI-151



KI-152



KI-154



KI-155



KI-159(a)

- KI 161 Water Bath Thermostatically controlled:** Double Walled, Inner chamber and lid made of S.Steel, outer body made of MS duly Powder Coated. Complete with SS concentric rings. Temp. Range: Amb. to 100 °C. (a) 25x30x10 cms. 6 holes 7.5 cms. (b) 30x30x10 cms. 9 holes 7.5 cms. (c) 35x40x10 cms. 12 holes 7.5 cms.
- KI 162 COD Digestion Apparatus:** It contains block heating unit with provision for samples to be digested in 38 mm dia reaction vessel. Temp. Range: Ambient to 150°C controlled with Digital Temp. controller. Provision for 15 samples complete with Glass reaction vessel and air condensers. Fitted with 0-2 Hrs. timer.
- KI 163 Serological Water Bath:** Thermostatically controlled, Double Walled, Inner chamber and lid made of SS, outer body made of MS duly Powder Coated. Temp. Range: Ambient to 100 °C. (a) 30 x 25 x 16 cms. for 2 Racks (b) 32.5 x 30 x 17.5 cms. for 4 Racks (c) 45 x 30 x 17.5 cms. for 6 Racks (d) 60 x 30 x 17.5 cms. for 8 Racks
- KI 164 High Precision Thermostatic Water Bath:** Double Walled inside chamber & lid made of SS, Temp. range ambient to 100°C ± 0.2°C, Temp. controlled with Microprocessor based Digital Temp.controller. Supplied with High speed stirrer having 1/20 HP Motor. Fitted with Glass window. Size of Inner chamber: 430x240x265 mm
- KI 165 High Precision Refrigerated Liquid Bath:** Double Walled, outer made of MS and inner chamber & lid made of SS. Fitted with CFC free Refrigeration system with Kirloskar compressor. Temp. Range: 0 to 100 °C ± 0.2°C controlled with Microprocessor based Digital Temp.controller. Provided with high speed Stirrer with 1/20 H.P. motor for uniformity of the temp.

- KI 166 Optional Accessories for KI 163, KI 164 & KI 165 :-**  
 (i) Extra Stirrer of 1/20 H.P. High Speed motor with SS Stiring Motor along with speed Regulator  
 (ii) Digital Controller cum Indicator with T/P Action  
 (iii) Water Circulation Pump  
 (iv) Microprocessor based PID controller with an Acc.± 0.2°C
- KI 167 Water Still Automatic** (for Pyrogen Free Distillation Water) Manesty Type wall mounting Single Walled, made of SS, fitted with kettle element. Electrically operated, suitable to work on 220/230V. (a) S. Steel 2 Lit per Hr. 2 KW (b) S. Steel 4 Lit per Hr. 3 KW (c) S. Steel 6 Lit per Hr. 4.5 KW (d) S. Steel 8 Lit per Hr. 6 KW (e) S. Steel 10 Lit per Hr. 7.5 KW
- KI 168 Distillation Apparatus (Barnstead Pattern):** Table Model S.S. Approx. output, double walled, gap between outer & inner walls is filled with high efficiency mineral wool. With Kettle element Electrically operated, suitable to work on 220/230V.  
 1) 3 Lit Per Hr. 2 KW  
 2) 4 Lit Per Hr. 3 KW  
 3) 6 Lit Per Hr. 4.5 KW  
 4) 10 Lit Per Hr. 6 KW
- KI 168 (a) Industrial Type Distillation Apparatus** Heavy Duty with automatic water level cut-off device 20 Lit Per Hr. 13.5 K.W.
- KI 169 Water Still Manesty Type** Double Walled, inside & outside S.Steel. Capacity :  
 2 Litre  
 4 Litre  
 6 Litre  
 8 Litre  
 10 Litre





heating Elements, water level indicator, drain cock, cord & plug. Provided with Neoprene rubber gasket Suitable to operate on single/ three phase 220/440 volts 50 cycles AC supply. Complete with SS Carriage and MS Trolley.

- i) 450 x 450 x 900 mm
- ii) 450 x 600 x 900 mm
- iii) 600 x 600 x 900 mm
- iv) 600 x 600 x 1200 mm
- v) 600 x 600 x 1500 mm
- vi) 600 x 900 x 1500 mm

**KI 174 (d) Accessories for Autoclaves :**

- (1) Automatic pressure control switch
- (2) Automatic Water level cut off device Electronic
- (3) Dial Thermometer
- (4) 0-60 Minute Timer 'German' Make
- (5) Neoprene Rubber Gasket Jointless:

**Dia:** 25 cm 30 cm 35 cm 45 cm 55 cm

- (6) Pressure Guage/Compound Guage
- (7) Digital Temperature Indicator
- (8) Digital Pressure controller cum indicator with sensor
- (9) Fully Automatic PLC based Touch panel controller cum Datalogger with 4 Preset Programmes Pressure, Temp. and Time.

**KI 175 Automatic Pipette Washer:** Made of S.S. Based on Siphon principle. It can accommodate pipettes upto 375 mm length.

**KI 176 Cork Boring Machine** hand operated with set of 9 Borers

**KI 177 (a) Automatic Voltage Stabilizer** Input 140-280V Output 200-240 V

**KI 177 (b) Automatic Voltage Stabilizer** Input 110-290V Output 200-240 V

**Capacity**

- 0.5 KVA
- 1.0 „
- 2.0 „

- 3.0 „
- 4.0 „
- 5.0 „
- 10.0 „

**KI 178 (a) Voltage Stabilizers Servo Control.** Voltage range 140-270 V output 230 ± 1%. Operatable on Auto/Manual mode. Unit is uneffected due to frequency variation in input supply.

**KI 178 (b) C.V.T. (Constant Voltage Transformer)** 180-260 V Output 220 ± 1% Capacity

- 150 W for Fax
- 0.25KVA
- 0.5 „
- 1.0 „
- 2.0 „
- 3.0 „
- 4.0 „
- 5.0 „
- 10.0 „

**KI 179 Rectangular Muffle Furnace:** Light Weight with ceramic fibre wool insulation in place of refractory bricks. Max.Temp.1000°C, working Temp.950°C. Heating Elements are made of Canthal wire special high Temp. alloy which ensure uniform distribution of heat. Temp. controlled by solid state Digital Temp. Controller. To work on 220/230 V AC

Muffle Size(inside)	Rating
(a) 100 x 100 x 225 mm	1.5 KW
(b) 125 x 125 x 250 mm	3.0 KW
(c) 150 x 150 x 300 mm	3.5 KW
(d) 200 x 200 x 300 mm	5.0 KW



KI-175



KI-176



KI-178(b)



KI-177(a)



KI-178 (a)

**KI 180 Muffle Furnace (High Temperature Furnace)** ☺  
 Max. Temp.1200°C Working Temp.1150°C fitted with Digital Temp. Indicator-cum-Controller. Industrial Grooved type. Light weight with ceramic Fibre wool insulation. Outer casing is made of double walled thick P.C.R.C. sheet, duly powder coated heaters are made of KANTHAL "A-1" wire. Provide with high temperature ceramic wool insulation. Temperature is controlled. Maximum temp. is 1200°C and working temp. 1150°C. Furnace is fitted with coil type heaters embedded in grooved refractory for supporting the heating elements on four sides. Suitable to work on 220 V or 440 V AC.

Muffle Size	Rating
(a) 100 x 100 x 225 mm	2.5 KW
(b) 125 x 125 x 250 mm	2.5 KW
(c) 150 x 150 x 300 mm	3.5 KW
(d) 200 x 200 x 300 mm	5.0 KW
(e) 200 x 200 x 450 mm	8.0 KW
(f) 300 x 300 x 300 mm	9.0 KW
(g) 300 x 300 x 450 mm	9.0 KW
(h) 300 x 300 x 600 mm	12.0 KW

**KI 180(a) High Temperature Muffle Furnace:** The casing is made of MS ☺ sheet reinforced with angle iron. Heating zone made with ceramic blanket, high temp. ceramic fibre board refractory, cumilag bricks. The furnace is heated with Kanthal Super-N/silicon carbide rods. Separate control panel is provided with step down transformer, voltmeter, ammeter, indicators. Temp. range ambient to 1500°C, Working Temp.:1400°C, Complete with Digital Temp. Controller. Size of Heating Chamber:

- 9" x 4" x 4"
- 10" x 5" x 5"
- 12" x 6" x 6"
- 12" x 8" x 8"

**KI 180(b) Accessories for above :**

1. Spare Pyrometer for above with Thermocouple 4" Scale Temp. 1000° C
2. Spare thermocouple
3. Spare silver fuse
4. Digital Controller cum Indicator
5. Digital Timer with alarm 99 min.

**KI 180(c) Incinerator:** It consists of combustion chamber, combined with ash box and a removal door. The secondary chamber provides a post combustion chamber to ensure that all gases are re-burnt. There is lockable front loading door. It is fabricated out of thick MS sheet with a 6cm thick refractory lining for insulation which keeps the heat inside the chamber whilst allowing cool walls on the outside. The unit is also fitted with environment friendly water circulation system. Working temp. in combustion chamber is 1000°C and in secondary combustion chamber is 1150°C controlled with Digital Temp. Controller.

Size of Heating chamber: 12" x 12" x 18" ( 3 Kg)

Size of Heating chamber: 12" x 12" x 24" ( 5 Kg)



KI-180



KI-180(a)



KI-180(c)



KI-180(b)4



KI-180(b)5

**KI 181 Hot Air Oven** (Mettmert German Type): Double walled, outer body made of MS, inner made of SS and is provided with ribs for adjusting trays at any height. Three side heating with beaded elements made of high quality nichrome wire, Temp. Range: 50 to 250° C ± 1° C controlled with capillary type Thermostat. Provided with L-shape thermometer and air ventilators on the both sides.

**Size of inner Tray**

**Chamber (WxHxD)**

(a) 300 x 300 x 300 mm	2
(b) 355 x 355 x 355 mm	2
(c) 455 x 455 x 455 mm	2
(d) 455 x 605 x 455 mm	2
(e) 605 x 605 x 605 mm	2
(f) 605 x 910 x 455 mm	3
(g) 605 x 910 x 605 mm	3

**KI 182 Incubator Bacteriological** (Mettmert German Type): Specifications are same as KI 181 but the door is fitted with Glass window. Temp. Range: Ambient to 70° C ± 1° C

**Size of Inner Tray**

(a) 300 x 300 x 300 mm	2
(b) 355 x 355 x 355 mm	2
(c) 455 x 455 x 455 mm	2
(d) 455 x 605 x 455 mm	2
(e) 605 x 605 x 605 mm	2
(f) 605 x 910 x 455 mm	3
(g) 605 x 910 x 605 mm	3

**KI 183 Tray Drier:** (Industrial Type with Forced Air Circulation): Double walled mounted on sturdy angle iron frame. Inner & outer chamber made of MS sheet. Outer is finished with hammertone paint & inner painted with Al. paint. Gap between both the chambers is filled with high efficiency mineral wool. Hot air is circulated in the chamber through heavy duty blowers. SS tubular air heaters are fitted in the air path. Brackets are provided at the

different height for the trays. Temp. is controlled with Digital Temp. Controller. Temp. Range: 50 to 250° C ± 2° C. Provided with separate control panel and ventilators on both sides. MS Drier including Aluminium Trays and SS Driers including SS 304 Trays. Inner Made of MS / SS.

**Size (W x H x D) Tray Cap. Load**

(a) 430 x 840 x 915 mm	12	6 KW
(b) 915 x 840 x 915 mm	24	9 KW
(c) 965x1275x1450 mm	48	12 KW
(d) 965x1700x1700 mm	96	21 KW

**KI 184 Optional Accessories for KI 181, KI 182, KI 183 :-**

- Air Circulating Fan with Air Duct.
- Digital Temp.indicator cum controller with Fan
- Timer 0-2 hours German make Analogue
- Cyclic Digital Timer 0-24 hours LCD display
- Timer 99.59Hr./Min. LED display
- Microprocessor based PID Temp. controller with air circulation fan
- Alarm
- Additional Tray for KI 183 size 800 x 400x 30 mm 18 G. made of Al.
- do— 20 G. made of SS
- Microprocessor based PID Temp. controller LED display with computer interface RS 232 alongwith software

**KI 185 Vaccum Oven:** Double walled, inner chamber made of SS & outside of MS duly power coated. Lid is provided with see through window of toughened glass. Temp. Range up to 150°C thermostatically controlled, Fitted with vacuum gauge, indicator lamps and ON/OFF switch to work on 220 V AC. (without Vaccum Pump)

**Size MM Inches**

250 x 250	10 x 10
250 x 300	10 x 12



KI-181



KI-182



KI-183



KI-184(ii)



KI-184(iv)



KI-184(vi)



KI-185

300 x 300	12 x 12
300 x 450	12 x 18
300 x 300 x 300	12 x 12 x 12
450 x 450 x 450	18 x 18 x 18
300 x 450 x 300	12 x 12 x 18
450 x 600 x 450	18 x 24 x 18

**Optional Acc.** (i) Vacuum Pump Refer Item No. KI 105(a) & 105(b)  
 (ii) Digital Temp. Controller  
 (iii) Digital Vacuum controller cum indicator with sensor.

**KI 186 Seitz Filter:** Made of SS provided with air tight screw cap. (Without filter pads)

Dia	Capacity
3 cm pad	50 ml.
6 cm pad	100 ml.
7.5 cm pad	250 ml.
7.5 cm pad	500 ml.
14 cm pad	1000 ml.
14 cm pad	2000 ml.

**KI 187 Filter Holder made of S.Steel for 47 mm Membrane**

- (i) 250 ml.
- (ii) 500 ml.

**KI 188 Thin Layer Chromatography Apparatus (T.L.C.):** Complete with Al. applicator, thin layer drawing board, developing chamber, spotting jig, silica gel, 6 Nos. glass plate, glass sprayer with bulb, drawing rack, micropipette.

**KI 189 Immuno Electrophoresis App.:** It is used for electrophoretic separation of immuno proteins. It consists of basic unit with platinum electrode, gel pucher single well, trough cutter and 3 nos. templates. No. of slides : 5 and buffer volume: 200 ml. Size: 18 x 16 x 8 cm

**KI 190 Horizontal Paper Electrophoresis:** In this filter paper is used as electrophoretic medium to separate protein components. It consists of Basic unit with platinum electrode, paper supporting rods ( 2nos) .

No. of strips : 6, Buffer volume: 300 ml. Size: 20 x 29 x 7 cm

**KI 191 Vertical Paper Electrophoresis:** Same as above but size 30 x 15 x 27 cm

(a) **Vertical Paper Electrophoresis Apparatus Mini**

**KI 192 SLAB GEL Electrophoresis Apparatus (Horizontal):** It is used for DNA/RNA separation. It consists of basic unit with Platinum Electrode, gel running tray, 8 well and 3 well acrylic comb. Buffer volume: 500 ml. Size: 27 x 16 x 8 cm

**KI 192 (a) Mini Horizontal Slab Gel** Complete. Buffer vol. 300 ml. Size: 20 x 10 x 7 cm

**KI 193 Vertical Slab Gel Electrophoresis Midi Model:** Buffer vol. 300 ml Complete with basis unit, notched glass plates, 13 well teflon comb, spacers, gel casting stand. Size: 25 x 19 x 20 cm

**KI 193 (a) Vertical slab gel electrophoresis Mini Model:** Same as above but buffer volume: 250 ml. Size: 13 x 10 x 12 cm

**KI 194 Digital Power supply for Electrophoresis:**

Range: 0-500 V, 0-100 mA with two digital meters

**KI 195 UV Transilluminator:** It is used to study results of electrophoretic patterns accurately. The unit is fitted with cooling fan cum exhaust.

(a) Viewing area: 24 x 14 cm, Wavelength: 360nm, UV source: 4 x 8 watts UV tubes. Filter: Orange filter

(b) Viewing area: 20 x 20 cm, Wavelength: 360nm, UV source: 8 x 8 watts UV tubes. Filter: Orange filter

(c) **Dual Model:** Viewing area: 24 x 14 cm, Wavelength: 360 & 254 nm, UV source: 4 x 8 watts UV tubes. Filter: Orange filter

**KI 196 Student Microscope:** Complete with Optics set 10x, 45x and eyepiece of 10x, 15x complete in ply wooden box with lock & key

**KI 196 (a) Dissecting Microscope** Senior Model (RoundBase) with 2 eye pieces 10x, 20x

**KI 197 Research Medical Microscope:** With detachable graduated mechanical stage. Irish diaphragm condenser movable on rack & pinion and 50 mm dia. Plano concave reflector replaceable by microscope lamp, Optical combination



eye piece 10x, 15x or 5x. Objectives 10x, 45x, 100x oil immersion. Magnification 50-1500x

—do— but with Superior 100x oil Immersion

**KI 197 (a) Optional accessories for Microscopes:**

- (i) Eyepiece 10x
- (ii) Eyepiece 10x WF
- (iii) Objectives 5x
- (iv) Objectives 10x
- (v) Objectives 40x
- (vi) Objectives 100x

**KI 198 (a) Research Inclined Microscope:** Inclined Monocular tube rotatable through 360° and inter-changeable for a straight monocular tube for microphotography Eye piece 5x, 10x & 15x. Objectives: 5x, 10x, 45x 100x. Magnification 25x, 1500x, with built in light and transformer

**KI 198 (b) Binocular Research Microscope** Binocular Head inclined at 45° & rotatable through 360° fitted with co-axial graduate mechanical stage, ball bearing quadruple revolving nose piece. Eye piece: 5x, 10x (WF) Achromatic Objectives- 10x, 45x, 100x. Magnification: 25x- 1500x, with superior oil Immersion. With built in 6V, 20W Halogen lamp and intensity control.

**KI 198 (c)** —Do— but Coaxial body

**KI 198 (d) Trinocular Research Microscope** with built in 6 V-20 W Halogen Lamp and supplied with two paired eye pieces 5x, WF, 10x Objectives 5x, 10x, 45x & superior 100 x oil immersion.

**KI 198 (e)** — do — but with 35 mm Rolli film Camera for microphotography, camera, adopter, release cord, microphotography eyepiece.

— do — but with Digital Camera 'Nikkon' or equivalent Make.

**KI 198 (f) Image Analysis Software**

**KI 198 (g) Stereoscopic Binocular Microscope:** Binocular Microscope with one paired 10x or 15x WF eyepieces & a fixed 2.5x or 3.5x or 4x objectives. Magnification: 25-60x

**KI 198(h) Stereoscopic Binocular Inclined Microscope:** Comprising an Inclined Binocular Head with interpupillary distance adjustable within 50-75 mm. Provided with two pairs of WF eyepieces 10x and 15x and paired parafoal objectives 2x or 3x and 4x or 5x. Magnification : 20x-75x. Complete with inbuilt lightning arrangement having 6V-21W illumination

**KI 198 (i) Stereozoom Binocular Microscope: Trinocular tube with an inclination of 45.** Zoom Ratio : 1x to 5x, eyepieces paired SWF 10x, base with dual light 6V, 20W halogen bulb.

**KI 198 (j) Stereozoom Trinocular Microscope :** Trinocular tube with an inclination of 45 Zoom Ratio 1x to 5x Eyepieces paired SWF 10x Base with dual light 6V, 20W halogen bulb

**KI 198 (k) Student Metallurgical:** Monocular Inclinal body. Incident light through epi-illuminator with aperture diaphragm and slot for filters. Triple revolving nose-piece fitted with graduated mechanical stage. Provided with solid state variable light controlled transformer 6V, 20W.

Achromate Objectives : M5x, M10x and M45x.  
Huyg. Eyepiece : 5x, 10x and 15x.  
Magnification : 25x to 675x

**KI 198 (l) Binocular Metallurgical Microscope :** Binocular Head inclined at 45° bright field incident light through epi-illuminator with centering provision, field and aperture diaphragm & slot for filters. Provided with solid state variable light control transformer 6V-20W day-light blue & green filters in metal mount.

Achromate Objectives : M5x, M10x, M45x  
Huyg. Eyepiece : 5x, 10x, 15x paired (any two pair)  
Magnification : 25x to 675 x

**KI 198 (m) Inclined Metallurgical Microscope :** Specification same as KI 198(j) but with monocular tube inclined at 45 deg. bright field.

**KI 198 (n) Colour Video Equipment for Microscope (Imaging System) :** Colour Close Circuit TV system (CCTV) consisting of high resolution 'C'



mount light weight CCD Camera for excellent image contrast. Complete with high re-resolution 14" Video Monitor having two magnifications. Complete with Trinocular Coaxial Microscope.

**KI-199 (a) Medico-Centrifuge** for 4 Tubes with swing out head 3500 RPM

**KI-199 (b)** For 8 tubes Angle Head 5000 RPM

**KI-199 (c) Pathological Centrifuge** with Angle Rotor Head with see through acrylic cover. Max. speed of 4500 RPM and Max. RCF 2100 x g. Cap 24x1.5 ml Eppendorf tubes. With a stepless speed control. ⚙️

**KI-199(d) Laboratory Table Centrifuge** with stepless speed control, pilot indicator lamp (without Rotor Head) Capacity : 200 ml Max. speed 5000 RPM, Max. RCF 3650 x g ⚙️

**KI-199(e) Laboratory Table Centrifuge** with stepless speed control, pilot indicator, 0-60 minutes timer & speed meter. (without Rotor Head) Capacity : 200 ml. Max. speed 5000 RPM, Max. RCF 3650 x g ⚙️

**KI-199(f) Laboratory Table Centrifuge** with stepless speed control, pilot indicator, 0-99 minutes Digital Preset timer & Digital speed meter. Capacity : 200 ml. Max. speed 5000 RPM, Max. RCF 3650 x g (without Rotor Head) ⚙️

#### Rotor Heads for above

- i) 8 x 15 ml Swing out Rotor Head, metal carrier, glass tubes & Rubber cushions
- ii) 8 x 15 ml Angle Rotor Head, metal carrier, & PP tubes
- iii) 4 x 50 ml Swing out Rotor head, metal carrier, glass tubes & rubber cushions.
- iv) 4 x 50 ml Angle Head with metal carrier, & PP tubes
- v) 12 x 15 ml Angle Rotor Head with metal carrier, PP

**KI-199 (g) Centrifuge Multipurpose** with stepless speed control, pilot indicator lamp, 0-99 minutes Digital Preset timer with bypass switch and digital speed indicator. Capacity : 300 ml. Max. speed 5500 RPM, Max. RCF 3950 x g (without Rotor Head) ⚙️

#### Rotor Heads for above

- i) 16 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- ii) 12 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- iii) 8 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- iv) 4 x 50 ml Swing out Rotor Head, metal carrier & Round bottom glass tubes
- v) 16 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- vi) 12 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- vii) 8 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- viii) 4 x 50 ml Angle Rotor Head, metal carrier & PP tubes

**KI-199 (h) Research Centrifuge** control panel provided with Digital speed meter, dynamic brakes, stepless speed control, 0-99 minutes Digital Timer cum Indicator, zero start interlock switch, see through acrylic top cover and lid locking switch, unbalance safety device, Max. Speed 7000 RPM. Max. RCF 7250 x g (without rotor Heads & carriers) ⚙️

#### Rotor Heads for above

- i) 4 place Swing out Rotor Head suitable for carrying 200 ml, 100 ml and 18 x 5 ml RIA tubes carriers (without carrier)
- ii) 4 Metal carriers each 1 x 200 ml capacity with rubber cushions
- iii) 4 Metal carriers each 1 x 100 ml capacity with rubber cushions
- iv) 12 x 25 ml Angle Rotor Head with see through acrylic cover and pp tubes
- v) 6 x 200 ml Angle Rotor Head with see through acrylic cover & pp tubes
- vi) 8 x 100 ml Angle Rotor Head with see through acrylic cover & pp tubes



KI-199(a) & (b)



KI-199(e) & (f)



KI-199(g)



KI-199(f)



KI-199(h)

vii) 12 x 50 ml Angle Rotor Head with see through acrylic cover & PP tubes

viii) 36 x 15 ml Angle Rotor Head with see through acrylic cover & PP tubes

**KI-199 (i) Research Centrifuge High Speed Table Top Model:**

Control panel provided with Digital speed meter, dynamic brakes, stepless speed control, 0-99 minutes Digital Timer with bypass switch, zero start interlock switch, see through acrylic top cover & lid locking switch, unbalance safety device, Max. Speed 20000 RPM. Max. RCF 34500 x g (w/o Rotor Heads & carriers) Ⓢ

**KI-199 (j) High Speed Refrigerated Centrifuge** with Control panel provided with stepless speed control, Digital speed meter, Alarmat automatic switching off, 0-99 min. Digital Timer, dynamic brakes, zero start interlock switch, digital temp. control device, push button switch cum indicator. It is equipped with a hermetically sealed Compressor for cooling the chamber. The Centrifuge chamber is made of SS. Temp. Range : -10°C to + 40°C & provided with see through acrylic cover and lid locking switch. Max. Speed 20000 RPM. Max. RCF 34500 x g (without Rotor Heads) Ⓢ

**Rotor Heads for above KI-199 (i) & (j)**

- i) 4 x 100 ml Angle Rotor Head with lid, epoxy coating with 4 No PP tubes
- ii) 8 x 50 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes
- iii) 4 x 50 ml Angle Rotor Head with lid, epoxy coating with 4 No PP tubes
- iv) 8 x 25 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes
- v) 6 x 25 ml Angle Rotor Head with lid, epoxy coating with 6 No PP tubes
- vi) 12 x 15 ml Angle Rotor Head with lid, epoxy coating with 12 No PP tubes

vii) 8 x 15 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes

viii) 4 x 10 ml Swingout Rotor with lid, sterilisable epoxy coating and 4 Nos metal carriers, rubber cushions and glass tubes.

ix) 24 x 2/1.5 ml Angle Rotor with lid, epoxy coating with 24 Nos 2/1.5 ml Epperdorf tubes

x) 4 x 25 ml Swingout Rotor with sterilisable epoxy coating and 4 Nos metal carriers, rubber cushions & glass tubes.

**KI-199 (k) High Speed Research Centrifuge** with Microprocessor control and Brush less Motor Drive. The centrifuge is provided with user friendly 10 programme memory for setting parameters like RPM, Time, Acceleration/Deceleration time setting, Rotor selection. The display and features are RPM by default, RCF by selection count down timer, Ⓢ electronic lid locking switch with indicator, Rotor vibration indicator. Maximum Speed 20000 RPM RCF 34500 x g (without Rotor & Head)

**KI-199 (l) High Speed Refrigerated Centrifuge** with Microprocessor control and Brush less Motor Drive. The centrifuge is provided with user friendly 10 programme memory for setting parameters like RPM, Time, Acceleration/Deceleration time setting, Temperature, Rotor selection. The display and features are RPM by default, RCF by selection count down timer, chamber temperature, electronic lid locking switch with indicator, Rotor vibration indicator and auto cut off when excessive vibration and chamber temp. The centrifuge is provided with CFC free cooling compressor with a range of -10°C to + 40°C resiliently mounted for vibration free vibration. Max. Speed 20000 RPM. Max. RCF 34500 x g (without Rotor & Head) Ⓢ

**Interchangeable Rotors & Heads KI-199 (k & l)**

- i) 8 x 50 ml Angle Rotor Head with 8 Nos of sterilisable PP tubes



KI-199(i)



KI-199(j)



ROTORS & HEADS

- ii) 18 x 15 ml Angle Rotor Head with 18 Nos of steriliseable PP tubes
- iii) 12 x 15 ml Angle Rotor Head with 12 Nos of steriliseable PP tubes
- iv) 24 x 1.5 ml Angle Rotor Head with 24 Nos of disposable Eppendorf tubes

**KI-199 (m) Microspin centrifuge** with stepless speed control, 1-99 min. Digital preset timer with bypass switch and Digital speed indicator. Max speed 16000 RPM, Max RCF 17600 x g (without Rotor & Head) 

**KI 199 (n) Refrigerated Microspin centrifuge** with programmable stepless speed control, 1-99 min. Digital preset timer with bypass switch and Digital speed indicator. Acceleration and deceleration time setting in range of 30 to 300 sec. CFC free cooling system with Digital Temp. controller, Temp. range: -10 to +40°C, imbalance safety device, zero start interlock, and lid locking switch. Max speed 16000 RPM, Max RCF 17600 x g (without Rotor & Head) 

**Interchangeable Rotors & Heads KI-199 (k & l)**

- i) 24 x 1.5 ml Angle Rotor Head with taper bottom PP tubes.
- ii) 24 x PCR tubes angle rotor head
- iii) 30 x 0.4 ml Angle Rotor Head with taper bottom PP tubes.
- iv) 12 x 0.5 ml Angle Rotor Head with taper bottom PP tubes.

**KI 200 Slide Cabinet** 'Closed Pack Manner' for storing 3"x1" slides in 480x75mm drawer in vertical position one after other. Made of M.S. Sheet with spray finish.

- (a) for 5000 Slides/ 16 drawers
- (b) for 10000 Slides/ 32 drawers
- (c) for 20000 Slides/ 64 drawers
- (d) for 25000 Slides/ 80 drawers
- (e) for 50000 Slides/160 drawers
- (f) for 100000 Slides/320 drawers

**KI 201 Slide cabinet** made of thick MS Sheet. Fitted with Handle, Lock & key, and index holder. Fitted with slotted Aluminium carrier to hold slides in **Horizontal** position.

Capacity	1000	2000	3000	5000	10000	20000	25000	Slides
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**KI 202 Micro Slide cabinet** for storing 3"x1" slides in Flat Position:

Capacity	500	1000	2000	Slides
Capacity	3000	5000	10000	Slides

**KI 203 Block Cabinet** made from M.S. Sheet duly enamel painted, drawers are fitted with Index card holders.

Block Cap.	2000	5000	10000	20000
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**KI 203 (a) Slide Carrying Tray** for 20 Slides

## PAPER & BOARD TESTING EQUIPMENTS

**KI 204 Bursting Strength Tester:**

- (a) Electrically operated Analogue Model with double pressure gauges 7 Kg/cm<sup>2</sup> & 35 Kg/cm<sup>2</sup>
- (b) Same as above but Digital Model

**KI 205 Digital Tensile Testing Machine** Cap 100 kg x 0.01 Kg, Elongations upto 900mm x 0.1 mm

**KI 206 (a) Cobb Tester** (Sizing Tester)

**KI 206 (b) Thickness Gauge For Paper**

**KI 206 (c) Drop Test Apparatus**

**KI 207 Digital Compression strength Tester:** For Transport Packages, Traverse speed: 12 ± 3 mm/min.



KI-199(m)



KI-200



KI-201



KI-204



KI-205



KI-207

- (a) 1m X 1m platform, Cap. 1000 kg x 0.1 Kg
- (b) 600mm X 600 mm platform, Cap. 1000 kg x 0.1 Kg
- (c) 450 mm X 450mm platform, Cap. 500 kg x 0.1 Kg

**KI 208 Digital Paper Moisture Meter** Range: 0-40 %

**KI 209 (a) Digital Wood/Timber Moisture Meter:** LCD Display, Data hold Range: 0-50 % & -10 to +65 C

**KI 209 (b) Digital Wood/Timber Moisture Meter:** (Four Pin) LCD Display, Data hold Range: 7-15 % & 16-35 %

**KI 210 Metabolic Shaker or Water bath Shaker:** Double walled unit, inner chamber & lid made of SS and outer of MS duly power coated. Provided with an oscillating tray riding on rollers equipped with a variable speed motor. Shaking speed: 40 to 140 per minute. Temp. Ambient to 100°C, thermostatically controlled. Provided with 1 No. shaking tray.

**Size :** 400x300x150 mm  
275x275x150 mm

**KI 210 (a)** Specifications same as KI 210 but Temp. 5°C to 100°C fitted with CFC free Refrigeration system with Emerson compressor. Temp. controlled with digital temp. indicator cum controller.

**Size :** 400x300x150 mm  
275x275x150 mm

**KI 210 (b) Optional Accessories:**

- (1) Digital RPM Indicator
- (2) Digital Temp. Indicator cum controller

**KI 210 (c) Shaking Racks made of S.Steel** for above

- 1) To hold 16 Nos. 25 ml. Conical Flask
- 2) To hold 12 Nos. 50 ml. Conical Flask
- 3) To hold 9 Nos. 100 ml. Conical Flask
- 4) To hold 5 Nos. 250 ml. Conical Flask
- 5) To hold 25 Nos. 25 mm. dia Test Tubes

**KI 211 Pipette Dryer:** Electrically Operated, Made of SS. Suitable for drying pipettes, burettes and other glassware upto 375 mm length.

**KI 212 Glass Ware Dryer** with Electrically Driven blower which Forces air through 12 Brass Nickle Plated Tubes which are perforated by No. of small holes fitted with heating elements, ON/OFF switch & indicator lamp to work on 220 V AC

**KI 213 Environmental/Plant Growth Chamber:** Inside made of SS, outside M.Steel duly powder coated fitted with CFC free refrigeration system, heating and lighting arrangement. Temp. Range: 5 to 50° C ±1° .C. Temp. can be obtained from 15 to 50° C ± 1° C when all lights are 'ON' Temp. is controlled by Digital Temp. Indicator cum Controller. It is provided with Humidity Control from Ambient +5% to 95% at cool temp. controlled with Digital Humidity controller.

W x H x D	Cap.	Inside SS
505 x 830 x 415 mm		6 cu.ft.
570 x 875 x 550 mm		10 cu.ft.
950 x 650 x 550 mm		12 cu.ft.
950 x 700 x 650 mm		15 cu.ft.
775 x 900 x 775 mm		20 cu.ft.
825 x 1200 x 825 mm		30 cu.ft.
900 x 1720 x 800 mm		45.8 cu.ft.

**Optional Accessories:**

- (1) Dual Temp. Indicator cum controller to set two temperatures for Day and Night.
- (2) Microprocessor based Temp. & Humidity controller with Alpha-numeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display.

**KI 214 Melting Point Apparatus:** It is used for the determination of melting point upto 350° C. Made of Aluminium casting, provided with E.R. and illumination.



**KI 214 (a) Digital Melting point App.:** For precise determination of Melting/boiling point with Digital readout. 4 digit LED display. Temp. Range: 40°C to 300°C and readability 0.1°C

**KI 215 Orbital Shaking Incubator:** Double walled, Outer body of MS, Inner chamber of SS with air circulation fan, Temp. controlled by Digital Temp. Controller, Variable speed fitted with DC Motor with Digital RPM Meter, SS platform & SS lotus clamp with SS spring. Fitted with front double walled door with glass window/chest type acrylic dome. Size of the chamber: 600x600x600 mm sufficient enough to accommodate 16 flasks of 500/250 ml or 36 flasks of 100ml. Temp. Range from 5°C above ambient to 60°C ± 0.5°C.

**KI 215 (a)** Specifications same as KI 215 but Temp. range 5°C to 60°C ± 0.5°C. With CFC free refrigeration system.

**KI 215 (b) Orbital Shaking Incubator (Deluxe Model):** Same as above but with PMDC drive

**KI 215 (c) Optional Accessories:-**

- 1) Interior illumination with CFL lights for double walled metallic door model only.
- 2) Additional Tray to accommodate flask of different size with above
- 3) Voltage Stabilizer 4 KVA
- 4) Digital 24 hr. Cyclic Timer with LCD display

**KI 216 B.O.D. Incubator (Automatic):** Low Temp Incubator fitted with CFC free Refrigeration system. Temp. Range: 5 to 50°C controlled with Digital Temp. Controller. Double Walled, outer chamber of M.S. duly powder coated, inner chamber of S.S. Fitted with glass window or glass door.

**Chamber Size(HxWxD)**

950 x 700 x 650 mm	15c ft.
950 x 650 x 550 mm	12c ft.
875 x 570 x 550 mm	10c ft.

830 x 505 x 415 mm	6.1c ft.
610 x 455 x 410 mm	4.0c ft.

**KI 216 (a) Optional Accessories :**

1. Interior Illumination with 3 Nos. fluorescent tubes of 60 cm length with Electronic choke. separate on/off switch for tubes and minimum temp. can be obtained from 10 to 50°C when all the tubes are ON.
2. —do— but tube lights fitted in Main door/ separate door on one side of chamber with double glass partition.
3. Digital Timer 0-24 hours, for regulating cyclic illumination condition, LCD Display
4. Timer 99.54 Hr./Min. LED display
5. Voltage Stabilizer 3 KVA (Triple Relay)
6. Humidity Control 5% above ambient to 95% with S.S Tank
7. Digital Humidity Controller.
8. Microprocessor based PID Temp. controller LED display with computer interface RS 232 alongwith software
9. Microprocessor based Temp. controller with alphanumeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display

**KI 217 (a) Seed Germinator:** Dual Chamber, Inner Chamber made of SS 304 and outside of M.S. elegantly finished, Glass door for testing visibility, Double compartment with independent controls. Each chamber have 14 trays i.e. 28 trays of 430x480 mm. Each chamber has separate air circulation system with provision for an even distribution of air by the blower which ensure uniformity of temp. throughout the chamber. Suitable for operation on 230/220 V AC. Size of each Inside chamber: 910x550x605 mm Temp. Range 5 to 50°C. Complete with Illumination & Timer.

**KI 217 (b) Seed Germinator (Dual Chamber):** Specification Same as above but provided with heating and cooling system in both chambers instead of one for heating & another one for cooling



KI-214(a)



KI-215



KI-215 (a&b)



KI-216



KI-217(a)

**KI 217 (c) Seed Germinator Single chamber:** Temp. range 5 to 50°C, Humidity 90-95%. Complete automatic heating and cooling with 12 trays Other specification & sizes are as per Model No. **KI 217 (a)** Temp. controlled with Digital Temp. controller. ☺

**KI 218 Ultra Low Temperature Cabinet Vertical/ Horizontal (Deep Freezer) :** Double walled unit, outer made of MS & inner made of SS. Fitted with CFC free Refrigeration system with Emerson compressor. Horizontal models are supplied in Single/Double Compartments. Vertical models are provided with 2/ 3 Nos. SS Trays. Temp. range from ambient to -20,-30 °C controlled by a solid state Digital Temp. controller-cum -indicator fitted with two indicators, ON/OFF switch. ☺

**Horizontal Cap.**

- 2.0 cu. ft.
- 4.5 cu. ft.
- 5.5 cu. ft.
- 7.5 cu. ft.
- 10.0 cu. ft.
- 12.0 cu. ft.
- 15.0 cu. ft.

**Vertical Cap.**

- 2.0 cu. ft.
- 4.5 cu. ft.
- 5.5 cu. ft.
- 7.5 cu. ft.
- 10.0 cu. ft.
- 12.0 cu. ft.
- 15.0 cu. ft.

**KI 219 Humidity and Temperature Control Cabinet:** Double walled, outer made of MS and inner chamber made of SS. with forced Air ☺ Circulation. Temp. 5°C above room temp. to 60 Deg.C Humidity Ambient + 5% to 95% ± 5%. Temp. controlled with Digital Temp. controller and Humidity with Digital Humidity controller.

- 455 x 455 x 720 mm ( 5.5 C.Ft.)
- 605 x 605 x 605 mm ( 8.0 C.Ft.)
- 605 x 605 x 905 mm (12.0 C.Ft.)

**KI 220 Refrigerated Humidity Cabinet:** Specifications same as in Model No. **KI 219** but fitted with an CFC free Refrigeration system to ☺ obtain Temp. from 10°C to 50°C ± 1°C and relative. Humidity Ambient +5% to 95% ± 5%. Suitable to work on 230 V, 50 Hz. AC. Temp. controlled with Digital Temp. controller and Humidity with Digital Humidity controller.

- 455 x 455 x 710 mm
- 605 x 605 x 605 mm
- 605 x 605 x 910 mm

**KI 220 (b) Optional Accessories for KI 220 & KI 221:**

- (i) Hair Hygrometer
- (ii) Digital Thermohygrometer battery operated
- (iii) Microprocessor based Temp. & Humidity controller with alphanumeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display.

**KI 221 Mortuary Chamber:** Suitable for storing Cadaverous under cool condition to prevent decomposition. Made of Prefabricated PUFF panels with outer wall made of precoated MS sheet and inner wall made of SS. SS Trays to carry dead bodies are provided with handles and travel on rollers fitted with ball bearing for easy movement. Provided with CFC free Refrigeration unit with Emerson Compressor. Temp. Range: ☺ 2°C to 8°C. Temp. controlled with Digital Temp. Controller

Single Body  
Double Body  
Three Body  
Four Body  
Six Body



KI-217(c)



KI-218



KI-218



KI-219



KI-220



KI-221

**KI 221 (b) Cadaverous Injector:** Size 30"x30"x20" S.S. Tank with ½ H.P. Compressor

**KI 221 (c) Needle Incinerator (Destroyer) cum-cutter**

**KI 222 Glass Distillation:** Automatic Electrically Heated NPL Type complete with Glass flask with embedded heating elements fused in spiral glass coil, double walled condensor with standard joints, glass fittings, Metal Stand, Electric Board with switch, Neon light indicator and connecting cord for Flask & main. **Single/Double/Triple Stage** ☺  
**Capacity of Flasks**

3 litre  
5 litre  
10 litre

**KI 222 (a) Automatic Water Level cut off device**

For Single & Double stage  
Triple stage

**KI 222 (b) Spare flask for Glass Distillation** 3 lr.  
5 lr.  
10 lr.

**KI 222 (c) Spare Condensor** 3/5 ltr.  
10 ltr.

**KI 222 (d) Vertical Glass Distillation** with quartz heater tube with automatic water level cut off device. The system is mounted on Metal Box ☺  
**Cap. 1.5 Lt. / Hr. Single/Double Stage**

**KI 222 (e) Horizontal Glass Distillation** with quartz heater tube with automatic water level cut off device. The system is mounted on Metal Box. ☺  
**Capacity available are 1.5 Lt./Hr. & 3.5 Lt./Hr. Single/Double Stage**

**KI 223 (a) Quartz Distillation Apparatus:** Made of Transparent Fused Quartz tube with Electronic Cut off. Complete with stand, Board & Switches etc. Complete with Quartz Condenser & Quartz Boiler.

**Cap.** 1 Lt. 1.5 Lt. 2 Lt. 3 Lt. 5 Lt.

**KI 223 (b) Quartz Distillation Apparatus:** with Borosil Glass Condenser, Quartz Boiler complete with Electronic Cut off, Board, clamp & Switches, Single Stage. **Capacity: 1 Lt., 2 Lt., 3 Lt. & 5 Lt.** ☺

**KI 224 Tissue Floating Bath:** Double walled, made of Al. Inner is finished in black colour. Temp. controlled with thermostat. Inside (dia) 250 x 100 mm (depth) having 50 mm rim with cover. ☺

**KI 225 Biological Safety Cabinet:** Cabinet is fabricated out of the Board duly Sunmica clad/SS, interior surface is made of SS/Sunmica. Complete with SS table, U.V. light, Manometer, filtered Exhaust System, virus Burn-out unit, Sliding sash, HEPA filter, Pre-filter fluorescent light, Gauntlets & Glove Ports. This unit is incorporated with recirculation of air. ☺

Model	1.	2.	3.	4.
<b>Working Size</b>	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
<b>Size of Hepa Filter</b>	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"
<b>No. of Hepa Filter</b>	1	1	1	2
<b>Illumination</b>	1x20 W	1x20 W	1x30 W	1x30 W

**Wooden Body**

**MS Body**

**SS 304 Body**

**Optional Accessories :**

- 1) Exhaust Ducting Per Running Ft.
- 2) Gas Burner



KI-221 (b)



KI-221 (c)



KI-222



KI-222(d)



KI-222(e)



KI-224



KI-225

**KI 226 Horizontal Laminar Flow Bench :** Fabricated out of thick board ☹️ clad with laminate. Side panels and front doors are made of thick plexi glass fitted in Al. frame. Blower & Motor assembly is statically & dynamically balanced and operates with min.noise. Supplied complete with S.S. Table Top, HEPA Filters having efficiency rating as high as 99.97%, Pre-Filters, Manometer, flourescent tube, U.V. light & Cock.

Model No.	1.	2.	3.
<b>Working Area:</b>	2'x2'x2'	3'x2'x2'	4'x2'x2'
Size of HEPA Filter:	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter:	1	1	1
No. of Pre Filter:	1	2	2
Illumination:	1x20 W	1x20 W	2x40 W

Model No.	4.
<b>Working Area:</b>	6'x2'x2'
Size of HEPA Filter:	3'x2'x6"
No. of HEPA Filter:	2
No. of Pre Filter:	3
Illumination:	2x40 W

**KI 227 Vertical Laminar Flow Bench:** Specifications same as in KI 226 but air is flowing down vertically from top towards the work table and also provided with Exhaust system ☹️

Model No.	1.	2.	3.
<b>Working Area:</b>	2'x2'x2'	3'x2'x2'	4'x2'x2'
Size of HEPA Filter:	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter :	1	1	1
No. of Pre Filter:	1	2	2
Illumination:	1x20 W	1x20 W	2x40 W

Model No.	4.
<b>Working Area:</b>	6'x2'x2'
Size of HEPA Filter:	3'x2'x6"
No. of HEPA Filter :	2
No. of Pre Filter:	3
Illumination:	2x40 W

**KI 227 (a) Horizontal/Vertical Laminar Fow Bench :** Fabricated out of MS duly powder coated other specification are same as of wooden Laminar ☹️ in KI 226/227

Size	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	6' x 2' x 2'
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**KI 227 (b) Horizontal/Vertical Laminar Fow Bench :** Fabricated out of SS 304 other specification are same as of wooden Laminar KI 226/227 ☹️

Size	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	6' x 2' x 2'
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**KI 227 (c) Optional Accessories for Laminar/Biosafety cabinets:**

- (i) HEPA Filter 2x 2' x 6"  
3' x 2' x 6"  
4' x 2' x 6"
- (ii) Manometer
- (iii) U.V. Tube 18"
- (iv) U.V. Tube 36"
- (v) Pre-Filter

**KI 228 A.C. Module:** It is attached with Air Conditioner and supplies conditioned clean air equivalent to class 100. Self Standing Model. Fitted with Blower, pre filters and HEPA filters etc. 500 CFM. Size: 2' x 2'



KI-226



KI-227



KI-227 (b)



KI-227 (c) (i)



KI-228

- KI 229 (a) Ultra Violet Lamp (Box Type):** It is a portable dark room for U.V. visualisation of fluorescent materials sample can be placed on the tray by opening the window and suitable for paper chromatography, Analysis mainly for graduation of oil. Radiation Range: 3200 to 4000 AU Centred around 3600 AU.
- KI 229 (b) Ultra Violet Lamp:** Box Type, combined Short & Long Wave without filter. It is portable dark room design providing both the facilities for short wave and long wave U.V. visualisation of test objects. The operator can carry on inspection of objects where long wave U.V. radiations is necessary. U.V. radiation for long wave is centred around 3600 AU & for short wave is centred around 2500 AU.
- KI 230 Air Curtain:** It acts as a barrier for outside hot, humid & polluted air and also prevents escape of conditioned air. It is fabricated out of MS sheet. Fitted with balanced blowers made of Al. with minimum noise & no vibration. Available with Normal & High (20 to 22 m/s) velocity.
- Door Width**  
 750 mm  
 900 mm  
 1200 mm  
 1500 mm  
 1800 mm
- KI 230 (a) Air Shower** in fitted with Pre-fitter, HEPA filters, Motor Blower assembly, door inter locking system, magnetic door lock. It is fabricated out of 19mm thick board duly laminated/M.S. duly powder coated/SS 304. It has high air flow through the nozzles fitted on wall & roof. Air shower has manual/semi-auto/fully automatic programming. It has two operation mode (i) Entry only (ii) Entry & Exit. Sizes (a) 3' x 3' x 7' (b) 3' x 4' x 7'.
- KI 230 (b) Flying Insect Killer 24"x 2 tubes**  
**(c) Flying Insect Killer 18"x 2 tubes**
- KI 231 Fume Hood:** These are designed to exhaust toxic & harmful vapours from the working area. A motor and blower balanced system generates negative pressure within the hood. Fabricated

of thick wooden board with Sunmica & Interior is made of SS/Sunmica. Working Table is fitted with SS top & Wash Basin. The front door moves vertically up and down with concealed counter balanced weights. The unit is provided with fluorescent light, Gas Cock, Exhaust System. ☺

**Size:** 2'x2'x2' 3'x2'x2' 4'x2'x2' 5'x2'x2' 6'x2'x2'

- KI 232 (a) Colony Counter** (for counting Bacterial colonies): Complete with counting plate, 100 mm dia lens and marking pen.
- KI 232 (b) Laboratory counter six unit (Blood cell)** with 5 keys and one totaliser.
- KI 232 (c)** – do – but with 8 keys and one totaliser.
- KI 233 Automatic Microtome Knife Sharpner** (A.O.Spencer Type): The unit consist of sturdy housing fitted with geared motor which ensures an equal bevel angle by moving the knife to & fro and automatically reverses the same at regular intervals. It is fitted with transparent hinged cover. Knife of length 170-185 mm can be accommodated on the unit. Supplied complete with 0-60 minute timer, two honning plates, one knife holder and cord & plug to work on 220/230 V.
- KI 234 (a) Automatic Tissue Processor:** For processing of Tissues by Histopathological Technique. Complete with 2 No. Wax Bath, 1No. S.S. Basket, 12 No. Tissue container, 10 No. Beaker (1Lt.) with cover, 6 No. 24 Hrs. timing calibrated disc, 1 No. Basket Rotor complete with dust cover.
- KI 234 (b) Automatic Tissue Processor with Safety Device :** Specification as per model KI 234(a) but with equipped with built-in safety device to protect the tissues during power failure.
- KI 235 Precision Rotary Microtome** (Latest Model 820 Spencer type): It is used for precise sectioning with feed setting visible from front, improved locking device and counter balanced wheel with **CAM DRIVE SYSTEM**. Feed is adjustable from 1 to 50 microns in step of



1 micron. Free up & down movement of object clamp. Takes specimen upto 32 x 27 mm on block holders. Cutting angle is adjustable through 30°. Two lever release knife holder for resetting angles and a third lever releases the entire assembly for movement on slide way to adjust horizontal distance from object. Supplied with one knife 120 mm with back & handle, 2 block holder, lubricating oil.

**KI 236 Microtome Cryostate Automatic:** It is used for sectioning of natural tissue from 2 to 20 microns in step of 2 microns. Builtin Rotary microtome is fitted with Anti Roll device to avoid curling of sections. Temp. Ranges upto  $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$  controlled with Digital Temp. controller. It also incorporates Automatic Defrosting system, delay timer, defrost timer, control panel, voltmeter, indicators, main switch, fluorescent tube.

**KI 237 Freezing Microtome (Erma Japan type):** It is based on principle of freezing with evaporation of CO<sub>2</sub> gas around the specimen. Table model & can be clamped at any corner of the table. Allows section thickness between 5-40 microns in steps of 5 microns. Supplied complete with freezing attachment having specimen stage of 32mm dia., gas pipe, one knife 120mm with back and handle, having plate but without gas cylinder.

**KI 237 (a) Microtome Erma Japan type**

**KI 237 (b) Microtome Lipsa model**

**KI 237 (c) Microtome Knife**

Size	120	150	180	200 mm
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**KI 238 Inspissators :** Double walled, Outer made of MS duly powder coated. Electrically operated special for sterilizing the mediawater. Bottles. Inner Jacket, Lid & rack of S. Steel, thermostatically controlled.

Capacity :	25	50	100	200 tubes
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**KI 239 Instrument Sterilizer** Thermostatically Controlled, made of S.S. having automatic lifting arrangement with insulated handles. The sterilizer is fitted with

automatic immersion water heater with safety ejection device.

**Working Size**

300 x 150 x 100 mm

430 x 200 x 150 mm

600 x 300 x 150 mm

**KI 240 Dressing Drums Made of S.Steel**

(a) 225 x 225 mm

(b) 275 x 225 mm

(c) 350 x 250 mm

(d) 275 x 130 mm

(e) 350 x 130 mm

**KI 241 Lux Meter Digital:** Upto 50000 Lux, hand held, works on 9V dry battery.

**KI 241(a) -----do-----** but upto 200000 Lux

**KI 242 Abbe Refractometer :** It is used for precise measurement of Refractive index from 1.3 to 1.7 with an accuracy of 0.001 by direct reading on scale & 0.0001 by estimation. Sugar percentage range 0-95% with an accuracy of 1% on scale and 0.1% by estimation. Complete with test piece, contact liquid and thermometer. Complete in wooden cabinet. ☺

**KI 242 (a) -do- Export Model**

**KI 242 (b) Water Bath** for Abbe Refractometer with circulation pump.

**KI 243 Butyro Refractometer ( Oil & Sugar)** Range- 50 -80%, Acc. 1% Direct scale ☺

**KI 244 Polarimeter:** Instrument is used for testing sugar solution and other optically active liquids. Designed to accommodate upto 220mm tube having both Angular & sugar scale with Rotating half shadow effect. (without sodium lamp & Assembly & choke)

**KI 244 (a) Polarimeter:** Specifications same as KI 244 but with **Rotating triple shadow effect** and fine optics.

**KI 245 Polarimeter:** Specifications same as KI 244 but with suitable to accommodate 400mm tube.



**KI 245 (a) Polarimeter:** Specifications same as KI 244 but with **Rotating triple shadow effect** and fine optics 400 MM.

**KI 245 (b) Polarimeter Spares:**

(i) Polarimeter Tube	Bubble type	Centre fitting
100mm		
200mm		
400mm		

**KI 246 Sodium Lamp, Assembly & Choke**

**KI 247(a) Pocket Refractometer (B&S Type) 0-50%** ☺

**KI 247(b) Pocket Refractometer ERMA type OR ERMA Japan.** ☺

- (a) 0-32% with 0-2% accuracy
- (b) 28-62%
- (c) 58-92%

**KI 247 (c) Pocket Refractometer 40-85%** (with imported optics) ☺

**KI 248 Hand Refractometer ERMA Japan** 0-10%, 0-18%, 0-55%, 45-82% (any range)

**KI 249 Digital Hand Refractometer ATAGO Japan**

- (a) 0.0 - 53.0 % Model PAL-1
- (b) 45.0 - 93.0 % Model PAL-2
- (c) 0.0 - 93.0 % Model PAL-3
- (d) 0.0 - 85.0 % Model PAL-Maple
- (e) 1.3306 to 1.5284 (Refractive Index) Model PAL-RI
- (f) 0.0 to 93.0 % (Brix) & 1.3306 to 1.5284 (Refractive Index) Model PAL-BX/RI

**KI 250 Infrared Moisture Balance:** With Electronic Regulator 5/10/20/25 gm. An accuracy of 0.2% by direct reading, 0.1% by estimation. Complete with L shape thermometer, 10 Nos. disposable pan and twizor.

**KI 250 (a) Optional Accessories:**

- (i) Disposable Pan
- (ii) Sample pan
- (iii) Retainer pan

- (iv) L thermometer
- (v) Torsion wire
- (vi) I.R. Bulb

**KI 251 Freeze Dryer (Lypholizer):** Lab floor standing model with Hermetically sealed Emerson compressor and CFC free refrigeration allows temp. upto -40°C and controlled with Digital Temp. Controller. Vacuum drum 22.8 cm (dia) x 25.4 cm (Ht.) made of Non-magnetic steel with plexi glass top cover is provided for manifold drying. Double stage vacuum pump along with Electronic vacuum indicator is provided with the equipment. Capacity 5 Lt. approx. (without Volt.Stablizer)

**KI 251 (a) -----do----- but** Capacity 3 Lt. approx. ☺

**KI 251 (b) Optional Accessories for KI 251 Freeze Dryer:**

- (i) Secondary Drying attachment
- (ii) Prefreezing attachment
- (iii) Heat rack with 2/3 individually heated rack for accelerated freeze drying of small batch sample in bulk. (Tray, petri dishes, beakers etc) adaptable to main drying chamber of lypholizer

**KI 252(a) Brix Hydrometer** Glass with Builtin Thermometer (any range)

**(b) Beume Hydrometer** Brass (any range)

**(c) Beume Hydrometer** Glass (any range)

**(d) Specific Gravity Hydrometer** Glass Light/Heavy liquid (any range)

**KI 253 Digital Bomb Calorimeter :** It is used for determination of heat of combustion of organic matter, calorific value & sulphur content of solid & liquid fuel. Bomb is tested as per requirement of Institute of Petroleum (IP 12/63 T Appendix 1). Complete with Electronic firing unit with Digital backman thermometer, SS crucible, Bomb calorimeter vessel with Bomb support, water jacket, lid, offset stirrer, connecting leads and other necessary accessories. ( Without oxygen cylinder)

**KI 253 (a) Optional Accessories:**

- (i) Oxygen Cylinder Capacity : 10 Ltr. with Regulator for above
- (ii) Digital Thermometer with Firing Unit



- KI 254 Humidifier:** Made of SS provided with high speed 2800 RPM motor and the blades are aerodynamically balanced to ensure dropless fumigation. Capacity: 3 Lt. ☺  
5 Lt.  
Control Box with Humiditistate
- KI 254 (a) Dehumidifier:** Based on Refrigeration system, it is used to remove excess moisture from the atmosphere. It is self standing model provided ☺ with castors, built-in water tank for water collection. It controls humidity upto  $30\% \pm 3\%$  with the help of Imported humidistat. Cap. 1.0 Tonn  
Cap. 1.5 Tonn
- KI 255 Tissue Culture Rack:** Racks made of heavy gauge MS Pipes duly Powder Coated. Complete with On/Off Switches & Digital Timer.  
(a) Unit of 4 Racks with 16 Fluorescent Tubes & 16 Bulbs. ☺  
(b) Unit of 5 Racks with 20 Tubes & 20 Bulbs  
(c) Unit of 6 Racks with 24 Tubes & 24 Bulbs  
**Optional Accessories :**  
1) Lux Meter to measure light Intensity  
2) U.V. Light 36"
- KI 256 Anerbic Culture Jar:** All Metal body consists of SS jar modified Mackintosh pattern. Size of Jar: 22 x 22 cm complete with Compound Gauge, two needle valves for evacuation. The jar is sealed with 'O' ring retained in the grooves around the perimeter of the lid powder coated.
- KI 256 (a) Anerbic Culture Jar** same as above but made of Polycarbonate
- KI 257 High Temperature Oil Bath :** Double walled, outer made of MS duly powder coated and inner made of SS. Temp.range from 50 to 250°C. Thermostatically controlled with an accuracy of  $\pm 2^\circ\text{C}$  to work on 220/230 V AC Complete with Stirrer. ☺  
Size : 250x250x250 mm  
300x300x250 mm  
355x300x250 mm
- KI 257 (a) Optional Accessories:** Digital Temp.controller-cum-indicator

**KI 258 (a) Overhead Projector:** With twin lamp system & cooling system.

**KI 258 (b) Overhead Projector Portable**

**KI 258 (c) Slide Projector Automatic:**

- 1) Complete with Linear Tray and remote control for focussing
- 2) With remote control Straight/Round tray Autofocus
- 3) Spare Halogen Bulb 150 W/24 V
- 4) Spare Bulb for Overhead Projector 650 W
- 5) Projection Screen 70"x50" on Tripod Stand
- 6) Laser Pointer Battery Operated

**KI 259 Egg Incubator :** With manual Tilting arrangement, Temp. Range: Ambient to 70 °C controlled by Digital Temp. controller and Air circulation fan with PP Trays but without Humidity arrangement

**Capacity**

50 Eggs

100 Eggs

200 Eggs

250 Eggs

**KI 259 (a) Optional Accessories:**

(1) Humidity arrangement Range 70% to 85%  $\pm 5\%$  controlled with humidistat

**KI 259 (b) Poultry Incubator :** Lab. model with Automatic Settler cum Hatcher with Tilting Device, Timer & Humidity Control, Outer MS & Inner SS, Setter Tray made of PP & Hatcher tray of SS sheet. Humidity controlled with humidistat. Temp. is controlled with thermostat. Provided with heating, cooling (through water circulation system) & circulation fan. Temp. Range: 35 to 38°C  $\pm 0.5^\circ\text{C}$  with extra safety thermostat & alarm system.

**Capacity**

50 Eggs

150 Eggs

200 Eggs

250 Eggs



- KI 260** **CO<sub>2</sub> Incubator** with LCD based Temperature & CO<sub>2</sub> Controller.  
With Printer Interface Temp. : 37°C ± 0.1°C   
CO<sub>2</sub> - 0-20% ± 2%  
450 x 450 x 450 mm (95 ltr.)  
450 x 450 x 600 mm (125 ltr.)  
500 x 500 x 700 mm (180 ltr.)  
**Optional** : IR Sensor for CO<sub>2</sub>

## DIGITAL INSTRUMENTS

- KI 261 (a) Digital Temp. Indicator** Portable Hand Held Battery Operated  
**(b) Digital Humidity & Temp. Meter:** 220Volts operated with wet & dry sensor/capacitive sensor for humidity  
**(c) Digital Thermohygrometer:** With LCD Display battery operated (Imported)
- KI 261 (d) Infra Red Thermometer Digital:** With LCD Display, battery operated (Imported). Temp. Range: -20°C to +420°C
- KI 261 (e) Digital Sound Level Meter** Range 80 to 130 db, battery operated  
**KI 261 (f) Digital Stop Watch:** 1/10th of sec.LCD display, battery operated
- KI 262 (a) Digital pH Meter** Display 3½ digit LCD, 0 to 14 pH, 0 to ± 2000 m Acc. ± 0.01 pH (relative), Slop Correction facility 80% to 120%, Temp.compensation, Power supply 230 V ± 10% supplied with combined electrode, Buffer solution, electrode stand, Dust Cover,
- KI 262 (b) Portable Digital pH Meter:** Display 3½ digit LCD, 0 to 14 pH, Acc. ± 0.01 pH, Manual Temp.compensation 0-100°C, 9V DC Battery operated. Supplied with combined electrode & Carrying Case, Housed in ABS cabinet
- Options:** I Combination Electrode for above  
II Automatic Temp. Compensation from 0 to 100°C with PT-100 probe  
III Gel filled Epoxy comined electrode

- KI 262 (c) Micro Processor pH System** with with Alphanumeric 16x2 LCD dispaly, simultaneous pH/m V and Temp. Display, Auto Temp. Compensation, data storage facility upto 90 samples, printer attachment facility, auto buffer recognition along with accessories
- KI 262 (d) pH Meter Pen Type:** 0-14pH, Acc. ± 0.2 pH, (Imported), Temp. 3½ digit LED display
- KI 262 (e) Digital pH-MHO Meter:** For measuring pH, conductivity & Temp. Digital 3½ digit LED display, pH range 0 to 14 pH, conductivity range 0 to 1000 mmho in 5 ranges. Supplied with 1 no. pH electrode, 1 no. conductivity cell and temp. probe
- KI 263 (a) Portable Conductivity Meter:** Display 3½ Digit LCD, 0 to 1999 µs, 0 to 19.99 ms Acc: 1% FS. 9V DC Battery operated. Supplied with conductivity cell & Carrying Case, Housed in ABS cabinet.
- KI 263 (b) Microprocessor based Conductivity/TDS meter** with Alphanumeric 16 x 2 LCD display showing conductivity, TDS & Temp. Auto ranging, selectable reference temp. & temp. coefficient. Data Storage for 90 samples & external printer attachment facility.
- KI 263 (c) Digital Conductivity Meter :** Display 3½ digit LED, Range 0 to 200 µS/cm, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm, 0 to 1000 mS/cm, Acc.± 1% FS. ± 1 Digit, Resolution : 0.1µs/cm, Cell constant adjustable on Digital display, Temp. Compensation : 0 to 70° C (Manual), supplied with Conductivity cell and electrode stand.
- KI 263 (d)** Dip Type Glass Cell for above
- KI 263 (e) Conductivity Meter Pen Type** (Imported) Range 10-1990 or 100-1990 us
- KI 263 (f) TDS Meter Pen Type** (Imported) Range: 10-1990 ppm or 100-10000 ppm
- KI 264** **Digital Moisture Meter for Soil**  
**KI 265** **Tele Thermometer** for Pyrogen testing Digital 6 Channel Portable with 6 Probes



- KI 266 (a) Microprocessor based Water Analysis kit:** For measuring pH, conductivity, TDS, Temp., DO, mV & salinity. 16x2 Line Alphanumeric LCD display, rechargeable battery cum mains operated with all accessories, Data storage facility upto 90 samples & external printer attachment facility. Housed in brief case.
- KI 266 (b) Digital Water Soil Analyser Kit:** Display 3½ Digit LCD display Measure 7 para-meters pH, conductivity, Temp., Dissolved Oxygen, salinity, Turbidity & TDS with Automatic Temp. compensated specific conductance, Temperature range-50 to 200°C, with rechargeable battery operated, complete with pH electrode, conductivity/TDS cell, Temp. Probe, DO sensor, Buffer sol., DO membranes 30 No.
- KI 267 (a) Digital Spectro Photometer:** 3½ Digit LED Range 340 nm to 960 nm with facility for automatic concentration, % Transmission and O.D. measurement. Wave Length resolution 5 nm
- KI 267 (b) Microprocessor Based Spectrophotometer (Visible):** Single beam, Range 340 nm to 960 nm with facility for automatic concentration, % Transmission and Absorbance & K-factor measurements. It has 16x2 line LCD for data & wavelength display. Facility for 100 sample data storage and interface for dotmatrix printer.
- KI 267 (c) Digital Photo Calorimeter** Auto Zero Model 8 Filters  
5 Filters
- KI 267 (d) Digital TDS/Salinity meter** 3½ Digit LED display with facility for temp. compensation and digit cell constant adjustment along with TDS cell, Table model.
- KI 267 (e) Portable Digital TDS Meter:** Display 3½ Digit LED, 0 to 1999 ppm, 0 to 19.99 ppt Acc: 2% FS 9V DC Battery operated. Supplied with conductivity cell & Carrying Case, Housed in ABS cabinet
- KI 267 (f) Auto Karl Fischer Titrimeter:** Having separate control and stirring units with array of 10 LEDs, buzzer, Auto Zero burette adjustable timer and dual platinum electrode & other accessories.

- KI 267 (g) Microprocessor based K.F. Moisture titrator** with builtin magnetic stirrer, auto computation of Moisture in ppm, %age and mg H<sub>2</sub>O Storage of date, time, batch no. & final result of 20 titrations. KF Reagent dispensing by motorised process. 8 digit display. External printer facility available.
- KI 267 (h) Digital UV-VIS Spectrophotometer :** Range : 190-1000 nm with facility for automatic concentration, % transmission & O.D measurements. Motorised Microcontroller based wave length selection, 4 digit LED display for wave length 3½ digit LED data display with 4 position sample holder.
- KI 267 (i) Microprocessor based Digital UV-VIS Spectrophotometer :** (Single Beam) Range : 190-1000 nm with facility for automatic concentration, % transmission, Absorbance and K Factor measurements. It has 16x2 line LCD data display and motorized wavelength selection selection on 4 digit LED display. It has square sample holder with 4 position selector control for 10 mm path length cuvettes. facility has been provided for 100 sample data storage and interface with any centronics printer. A set of 2 quartz cuvette is provided.
- KI 267 (j) Double beam Spectrophotometer with software:** Microcontroller based having Range: 190-1100 nm, Touch screen model with standard curve display on large graphic LCD, 10 mm Spectral Bandwidth, 1200 Line/mm Grating, Wavelength scanning, PC connectivity through USB port & direct printer connectivity using parallel port interface. It has facility for WL Scan, Kinetics, Multi Wavelength & DNA/ Protein Modes, Inclusive of PC software.
- KI 267 (k) Digital Flame Photometer** dual channel auto ignition, single aspiration, with filters (N & K) for medical use. Final results in meq/l. 2½ digit dual LED display for simultaneous results along with compressor and other accessories.
- KI 267 (l) Microprocessor based Flame Photometer** with Sodium (Na) & Potassium (K) filters, upto 5 point calibration, direct readout in ppm



& meq/l, auto filter selection, auto ignition, 24x4 line LCD display, Single Aspiration, RS 232 interface, printer attachment facility, with Compressor and other accessories for lab & medical use.

- KI 268 (a) Precision Optical cells** for Spectrophotometer 10mm path length 3ml Silica quartz Imported with lid
- KI 268 (b) Cells for Spectrophotometer Glass / Quartz**  
**Size :** 5mm 20mm 40mm 50mm 100mm
- KI 269 Digital Potentiometer:** Display 3½ Digit LED along with glass, silver, Platinum & reference electrode.
- KI 270 (a) Digital Vernier Caliper** 'Mitotoyo' Japan 6" / 8" / 12"
- KI 270 (b) Digital Screw Gauge** 'Mitotoyo' Japan 0-25 mm  
25-50 mm
- KI 271 (a) Electronic Colony Counter:** With Electronic marking pan & 4 digit resertable digital LED display with 40 memory, hold & count facility. Data restored after power failure also.
- KI 271 (b) Digital Blood Cell Counter** LED display with timer & stop watch 10 Cell Counter
- KI 271 (c) Digital Techometer 0-10000 RPM** (Contact Type)  
— do — but Non Contact Type
- KI 272 (a) Digital Turbidity Meter :** Range 0-200 JTU resolution 1 JTU accuracy ± 2%, 3.5 digit operate on mains
- KI 272 (b) Digital Turbidity Meter :** Range 0-1000 JTU resolution 1 JTU accuracy ± 2%, 3.5 digit operate on mains
- KI 273 (a) Digital Dissolved Oxygen Meter:** Range 0 to 20 ppm, resolution 0.1 ppm, acc. 0.2ppm ± 1 digit, Temp. 0 to 100°C, complete with DO Sensor, Temp. probe, DO membranes 30 No.
- KI 273 (b)** — do — but portable ABS Plastic body with DO Sensor

- KI 273 (c) Microprocessor based DO meter** with Alphanumeric 16 x 2 LCD display showing DO & Temp. Along with Magnetic stirrer. Data Storage for 90 samples & external printer attachment facility available.
- KI 274 Semi Auto Chemistry Analyser:** For End Point, Kinetic, Fixed time, multi standard and coagulation tests, 100 tests, cuvette/ flowcell system having 18 µl capacity. Built in thermal printer with graphic capability. It has 28 quick access test keys, 40x4 character LCD display, user friendly software.

## LABORATORY BALANCE

- KI 275 Laboratory Balance "Khera" Brand Model.**
- SPM** Single Pan Electrical Balance (Micro Mettler type) optical scale range 10 mgm 230/250V AC main 20 gms. 0.001mg
- SPE** Dhona Type Electrical Monopan Balance. Optical scale range 100 mgm. Air damping device 230/250 V AC mains controlled transformers. Cap.200 gms, Sensitivity 0.1 mg
- SM** Semi Micro Analytical Monopan Balance, as above optical scale range 100 mg 100 gms 0.01 mg
- KI 275 (a) Analytical Weight Box** Accurate superior quality  
 1 mg to 50 gms  
 1 mg to 100 gms  
 1 mg to 200 gms
- KI 276 Lab Weighing Scales Digital Electronic ( Imported/Indigenous)**
- | Capacity       | Cal. | Sensitivity | Pan Size |
|----------------|------|-------------|----------|
| (1) 300 gm.    | Int  | 0.1 mg.     | 85 mm    |
| (2) 220        | Int  | 0.1 mg.     | 85 mm    |
| (3) 320 gm.    | Ext. | 1 mg.       | 110 mm   |
| (4) 220 gm.    | Ext. | 1 mg.       | 110 mm   |
| (5) 60/210 gm. | Int. | 0.01/0.1 mg | 85 mm    |



(6)	200 gm. Ext.	0.1 mg	85 mm
(7)	200 gm. Load cell based	1 mg.	80 mm
(8)	300 gm/600 gm.	10 mg.	120 mm
(9)	1500 gm	100 mg.	270 x220 mm
(10)	2000 gm	100 mg.	270 x220 mm
(11)	3000 gm	100 mg.	270 x220 mm
(12)	6000 gm.	100 mg	270 x220 mm
(13)	6 Kg/10 Kg	0.5 gm.	270 x220 mm
(14)	30 Kg.	1gm.	270 x220 mm
(15)	16 Kg	1gm.	270 x220 mm
(16)	10 Kg.	1 gm.	270 x220 mm
(17)	32 Kg.	2gm.	270 x220 mm

**Optional Accessories:-**

- (a) Wind Shield
- (b) Battery Backup

**KI 276 (a) Platform Lab Weighing Scales Electronic Digital**

Capacity	Division	Platform Size
60 Kg.	5 gm.	450x550 mm
100 Kg.	10 gm.	450x550 mm
240 Kg.	20 gm.	600x600 mm
300 Kg.	20 gm.	600x600 mm
500 Kg.	50 gm.	600x600 mm
1000 Kg.	100 gm.	900x900 mm

## OIL & PETROLEUM TESTING INSTRUMENTS

**KI 277 Red Wood Viscometer No.1** Electrically Heated model with E.R.

**KI 278 Red Wood Viscometer No.2** Electrically Heated model with E.R.

**KI 279 Optional Accessories for above:**

1. IP 8C Redwood Low range Thermometer
2. IP 9C Redwood Medium ,, ,,
3. IP 10C Redwood High ,, ,,
4. Flask Receiver 50 ml. Capacity

**KI 280 SayBolt Viscometer Apparatus:** As per ASTM D-88. Electrically Heating with E.R.

**KI 281 Saybolt tubes Viscometer** Electric heating with Double walled control Panel, Digital Control and F.H.P. Stirrer

**KI 281 (a) Saybolt Viscometer** same as above but with two tubes

**KI 281 (b) Optional Accessories :**

1. Strainer for filtering oil
2. Withdrawl Tube (Metal)
3. Spare Cup without Jets
4. Spare Jet Universal
5. Spare Jet For Oil
6. Flask 60 c.c.
7. Polish Wooden Case for above.
8. Thermometer for above. 17C, 18C, 19C, 20C, 21C, 22C (any range)
9. Thermometer IP 28 C

**KI 282 Cleaveland Flash & Fire Point Apparatus :** It is used for determination of flash point and fire point of petroleum products except fuel oil with open cup flash above 80 °C as per specs IP 36 and IS: 1448 (P:69) 1969. Electrically heating with E.R.

**KI 283 Ford Cup Viscometer B-4**

**KI 284 (a) Pentrometer Apparatus:** App. is used for penetration test on a wide variety of material such as grease, petroleum, bitumen, wax, tar, food stuff, rubber asphalts and pharma creams. Specs are as per IP 49, 50 & 167 and IS 1448 (P:92) & (P:93). With containers and weights having penetration needle.

**KI 284 (b) Pentrometer Apparatus:** With Electronic Timer & electric arrangement with Brass cone & Needle

**KI 285 Abel Flash Point Apparatus** with Oil Test jet Electrical Heated with E.R.

**KI 285 (a) Optional Accessories :**

1. Abel Oil Cup Thermometer with Brass Collar



2. Abel Water Bath Thermometer with Brass Collar
3. Thermometer IP 74C wide range
4. Thermometer IP 75C wide range

**KI 286 Petroleum Distillation Apparatus:** It is used for determination of distillation characteristics of petroleum products. As per IP123, 191 and IS 1448 P: 18

**KI 286 (a) Single Distillation App.** Electrically heated with ER with Gear device

**KI 286 (b) Double Distillation App.** Electrically heated with ER with Gear device

**KI 286 (c) Distillation App. for crude Petroleum** as per IP-24 with one glass condenser, Electrically heated with ER

**KI 287 Pensky Marten Flash Point Apparatus:** As per IP34, ASTM D-93-58T and ISI 1448 (Part 1) 1970(P:21) & ISI 1209-1953 method B with Gas Test Jet/Oil Test Jet-Gas Heating

**KI 288 (a) Pensky Marten Flash Point App.** electrical Heating with E.R. fitted with motorised FHP elect. Stirrer with stand. Gas Test Jet/Oil Test Jet

**KI 288 (b)** -do- Electrical Heated with E.R. (Non-Motorised)

**KI 288 (c)** -do- but with Digital Temperature Indicator cum Controller

**KI 288 (d) Optional Accessories :**

1. IP 15C Low range thermometer
2. IP 16C High range thermometer

**KI 289 (a) Softening Point Apparatus:** For determination of Softening point of Bituminous material according to IP 58 and IS 1205-1958. The app. consists of glass beaker, ring stand, two steel balls with rings and ball guides, hand stirrer without glass beaker

**KI 289 (b) Softening Point Apparatus** with motorised stirrer and electric heater with temp. regulator control.

**KI 289 (c) Same as above but with Digital Temp. Controller**

**KI 290 (a) Carbon Residue Apparatus (Ramsbottom):** It is made as per IP 14, ASTM 524 and IS 1448 (P:8)-1967 standard. It is used to

determine the amount of carbon deposit when an oil evaporated under specified conditions. It consists of solid metal bath having 5 wells to accommodate cocking bulbs, 5 cocking bulbs and one syringe. Temp. controlled by Digital Temp. controller

**KI 290 (b) Carbon Residue Apparatus (Conradson):** It is made as per IP 13, ASTM D -189 specs. The app. consists of spun sheet iron crucible 25 cc cap. sheet iron hood and sheet iron block on a stand, gas burner.

- (i) Single Test Apparatus
- (i) Four Test Apparatus

**KI 291 Kinematic Viscometer Bath:** As per specification IP-71 and IS 1448. Chamber Size 12"x 9"x 12" deep to accommodate 4 Viscometers with Digital Temp. Controller

**KI 292 Kinematic Viscometer Bath :** Chamber Size 12"x12"x12" deep to accommodate 6 Viscometers with Digital Temperature Controller.

**KI 293 Cloud and Pour Point App. :**

As per Specification IP15, IS1448(P:10) 1970

1. Cloud and Pour Point Single Test App. with Insulated Body
2. Cloud and Pour Point Two Test App. with Insulated Body
3. Cloud and Pour Point Four Test App. with Insulated Body
4. Cloud and Pour Point Thermometer IP 1C
5. Cloud and Pour Point Thermometer IP 2C

## CEMENT & CONCRETE AGGREGATE TESTING INSTRUMENTS

**KI 294 Aggregate Impact Testing Machine IS: 2386**  
Part IV with counter

**KI 295 Beam Moulds :** complete with base plate  
Size 10 x 10 x 50 cm  
Size 15 x 15 x 70 cm



KI-286



KI-287



KI-288



KI-290(b)



KI-291 & 292



KI-293



KI-294

- KI 296 Blain Air Permeability App.** IS: 4031-1968
- KI 297 Compaction Factor Apparatus** IS:1199
- KI 298 Hydraulic Compression Testing Machine**  
(Hand Operated) 100 tonnes Cap.  
-do- but electric cum hand operated  
-do- but Cap 200 Tonn with Three gauges, electrically operated
- KI 299 (a) Cube Moulds:** Steel Cube mould 7.06 cm complete with base plate
- (b) Cast Iron cube mould** complete with base plate  
Sizes : 10 x 10 x 10 cm  
15 x 15 x 15 cm
- KI 300 Cement Autoclave as per I.S. 4031 Inner Chamber** ☾  
M.Steel  
S.Steel
- KI 301 Le-Chetelier Mould** ISS : 4031(set)
- KI 302 Length Comparator** ISS : 4031 with Dial Guage
- KI 303 Shrinkage Bar Moulds** ISS: 4031 Single Compartment  
Double Compartment  
Three Compartment
- KI 304 Vibrating Machine** ISS: 4031 with time switch  
& one 7.06 cm cube mould
- KI 305 Tamping Rod** 16mm dia, 0.6 mt. long
- KI 306 Jaw Crusher** (Laboratory Type) with 3 H.P. Motor ☾
- KI 307 Laboratory Pulveriser Disc type with 3 H.P. Motor** ☾
- KI 308 Guaging Trowel** IS : 269
- KI 309 Tile Abrasion Testing Machine as per IS 1237-1706**
- KI 310 Slump Test Apparatus** IS : 7320
- KI 311 Vicat Needle Apparatus :** 4031 with Dash Pot
- KI 312 (a) Vibrating Table** Size 50 x 50 cm
- KI 312 (b) Vibrating Table** Size 60 x 60 cm
- KI 312 (c) Vibrating Table** Size 100 x 100 cm

- KI 313 Ring and Ball Apparatus**
- KI 313 (a) Ring & Ball Apparatus Electric**
- KI 314 Thickness Guage** ISS : 2386 (Part I)
- KI 315 Length Guage** ISS : 2386 (Part I)
- KI 316 Spare Vicat Needle Mould Split type**
- KI 317 Spare Needle set for Vicat (SET)**
- KI 318 Mixing Apparatus Planetary Mixture with Heating**
- KI 319 Flow Table Motorised:** As per ISS-5512
- KI 320 (a) Ball Mill 12"x12"** with Electric Motor
- KI 320 (b) Ball Mill 14"x14"** with Electric Motor
- KI 321 Proving Ring** 50 Ton Capacity duly calibrated by Reputed Test House
- KI 322 Aggregate Crushing Value Apparatus**  
Size:           75mm                   150mm                   300 mm
- KI 323 Briquette Moulds IS 269**
- KI 323 (a) Briquette Mould Gang of 3 Moulds**
- KI 324 Cement Tube Sampler IS 3535-1966**
- KI 325 Concrete Test Hammer small**
- KI 326 Cylindrical Mould** made of cast iron Size 15 cm x 30 cm (DiachH)  
10 cm x 20 cm (DiachH)
- KI 327 Cylindrical Measures IS 2386 Part III**  
Cap.:   3 Ltr.   10 Ltr.   15 Ltr.   20 Ltr.   30 Ltr.
- KI 328 Density Basket** Size 20 cm x 20 cm (Diach Ht.) with G.I. wire
- KI 329 Riffle Sample Divider** 13 mm 14 slot  
--- do --- but 25 mm 16 slot
- KI 330 (a) Los Angles Abrasion Machine as per IS 2386 (Part IV)**
- KI 330 (b) Concrete Mixer Electrically operated**



## METEOROLOGICAL INSTRUMENTS

- KI 331 Automatic Water Level Stage Recorder** With Float, Counter weight, connecting Beaded wire, Ink bottle, mounted on Steel sheet plate frame and with steel sheet cover having locking arrangements complete set as per ISI No.9116/1979  
a) -- do -- but Digital
- KI 332 F.R.P. or G.I. body Automatic Self Recording** Rain Guage with Iron Stand, recording ink bottle 25 ml., 100 sheet Graph in book shape, its clock, duly painted with Gunmetal ring fitting on top as per ISI No. 5235/1969
- KI 333 F.R.P. Rain Guage Non-recording** With locking arrangements, measuring Glass, collecting bottle, fitted with Gun metal Ring on top as per ISI No.5225/1969
- KI 333 (a) Rain Guage Non Recording** Symon type, FRP with plastic cylinder
- KI 334 Rain Guage Digital Self Recording LCD Display**
- KI 335 Digital Anemometer:** With LCD display and remote sensor. Range: 0.4 to 30 m/s. Resolution: 0.1 m/s. Data hold facility. Readings in M/s, Km/hr & Ft./min. DC 9V battery operated. In carry case
- KI 336 Cup Anemometer** (Wind velocity meter) With Self Recording digital counter having 3 cups duly painted, as per ISI specs. No. 5912/1970
- KI 337 Pan Evaporimeter** Made of copper with steel net cover, stilling well, measuring gauge Bucket with handle, Thermometer clamp, Thermometer 0-50degree C and wooden base, as per ISI No. 5973/1970  
—do— G.I. Sheet
- KI 338 Stevenson Screen** duly painted made of seasoned wood as per ISI Specification No. 5948/1970 Small Size  
—do— Large Size
- KI 339** —do— Large Size

- KI 340 Snow Guage** with measuring glass as per ISI Spec. No. 6806/1973
- KI 341 Wind vane:** As per ISI Specific.No. 5799/1970
- KI 342 Maximum & Minimum Thermometer Zeal type Indian**  
— do — but Zeal English
- KI 342(a) Wet & Dry Bulb Thermometer Zeal type Indian**  
— do — but Zeal English
- KI 343 Thermohygrograph** with electronic clock.
- KI 344 Sun Shine Recorder:** As per ISI No.7243/1974
- KI 345 Automatic Water Level Indicator**  
30 mts.                      60 mts.                      90 mts.
- KI 345 (a) Altimeter** 0-4000 meters 10 meter division
- KI 345 (b) Stop Watch** Mechanical 1/10th of second
- (c) Stop Watch** Electronic
- KI 345 (d) Soil Thermometers** for following Depth as per I.S. Specification. 5, 10, 15 cm (any size)  
25, 30, 50 cm (any size)
- KI 346 Electronic Meterological Instruments**
- (a) Electronic Cup Anemometer** (Wind Speed) with LED Display
- (b) Electronic Pocket Thermocup Anemometer**
- (c) Assmann Physchrometer Japan**
- (d) Electronic Weather station** cable free with LCD monitor for auto scanning. 433 Mhz Transmission for wireless link between main unit & sensor units. RS 232 port for data output. Clock, Thermometer, Hygrometer, Dew point, Barometer, Wind display, Wind chill, Rainfall, 12-24 hrs. forecast, builtin memory, weather alarm, complete with sensors & P.C. Software without Computer.



KI-331



KI-332



KI-333



KI-336

KI-337



KI-341



KI-342(a)



KI-344



KI-345

## DEIONIZER PLANTS

**KI 347 DEIONIZER (D.M. Plant):** Double column consists of Cation & Anion resin columns, inbuilt Prefilter, Conductivity Meter operates on AC/DC. Deionised water will have pH from 7.5 to 9 & conductivity less than 10 ms/cm.  
**Output** 50 70 100 200 300 500 Lit.

**KI 348 Optional:** Digital Conductivity Meter in lieu of analog  
**Four Bed Demineraliser :** The Plant consist of Pre-filter, Activated carbon, Cation & Anion resin columns, Analog conductivity meter to monitor the quality of deionised water. A set of PVC flexible tube with connector. All are Housed in a trolley mounted on chemical proof M.S. stand easily portable rugged Construction to withstand any external accidents and chemical corrosion Deionised water will have the conductivity of less than 10 ms/cm pH of 7.5 to 9.5  
**Output (Lt.Hr.)** 70 100 200 300 500 Lit.

**KI 349 Reverse Osmosis System :** It treats raw water having total dissolved solids upto 3000 PPM. Treated water is suitable for drinking with nill bacteria  
**Output Cap. (Lt/hr)** 7 - 10 20 40 100

## PHARMACEUTICAL EQUIPMENTS

- KI 350 1. Tablet Hardness Testor** Monosanto type
- 2. Tablet Hardness Testor** Pfizer Type Dial type
- 3. Tablet Disintegration Test App.:** This instrument is designed for estimation of disintegration time of tablets/Capsules.  
 (As per III I.P. Standard) **Single Basket**

## Double Basket Four Basket

- 4. Optional Accessories:**
  - a) Water Bath for maintaining temp.
  - b) Digital Water Bath
  - c) Digital Timer with time hold facility
  - d) Spare Basket
  - e) Hanger for Basket
- 5. Tablet Friability Test. App.:** This apparatus is designed to determine the abrasion rate and impact hardness of tablets. **Single Drum**  
**Double Drum**
- 6. Optional Accessories:**
  - a) Digital Revolution counter
  - b) Spare Drum
- 7. Dissolution Rate Test Equipment:** This apparatus is suitable for testing of dissolution rate of tablets & capsules.
  - a) Single Test
  - b) Single test with Digital RPM & microprocessor drive
  - c) Three test with Digital RPM, Digital Temp. indicator, Digital Timer 99.9 min. with alarm & motorised lifting.
  - d) Specifications same as above but **Six test**
- 8. Optional Accessories:**
  - (i) Spare vessel unbreakable
- 9. Capsule Counter** (100 holes)
- 10. Tablet Counter** (100 holes)
- 11. Coating Pan** 12" dia.
- 12. Polishing Pan** 12" dia. without motor
- 13. Tablet Punch hand operated** single punch
- 14. Tablet Punch** but motorised
- 15. Filling machine** hand operated 1-100 capsules



16. **Tube Filling machine** Hand operated  
Foot operated
17. **Bulk Density Apparatus:** It is used to measure the bulk density of powders, granules and similar products.
  - a) Digital Bulk density App.
  - b) Bulk Density Mechanical
18. **Tube sealing Machine** Hand operated
19. **Ampule Washing Machine with 8 Nos. Nozzle & Pump**
20. **Ampule sealing & filling machine**
21. **Tincher Press** Hand Operated
22. **Clarity Test Apparatus**
23. **Saphostry Mould** 6 holes
24. **Saphostry Mould** 4 holes
25. **Perculator** 500 ml. Glass/SS without cover
26. **Aseptic Cabinet** S.Steel
  - a) -- do -- but Wooden Body
27. **Collapsible Tube Filling machine** hand Operated
28. **Hand Grinding Mill**
29. **Granulating Sieves**
30. **Mixing Vat with Stirrer** with 1/4 H.P. Motor with 5 kg container

## FOOD PROCESSING INSTRUMENTS

### KI 351

1. **Mango Pulper** capacity 100 kg/Hr. with 0.5 H.P. motor with S. Steel chamber, S.S. Sieve & Shaft
2. **Mango Pulper** Capacity 200 kg/Hr. with 1 H.P. motor S. Steel Chamber
3. **Mango Pulper** Capacity 500 kg/Hr. with 1 H.P. motor S. Steel. Chamber  
**Optional Spare Sieves for Mango Pulper SS**

- For Item No. 1 & 2  
For Item No. 3  
For Item No. 4
4. **Potato Peeler** Capacity 5 kg. with 0.5 H.P. motor S. Steel
  5. --do--but 10 Kg. with 1.0 H.P. motor S. Steel
  6. **PP Cap sealing machine** suitable for all sizes of bottle for threading and sealing, supplied with one die.
    - Hand operated
    - Pedestal Model
    - Motorised
  7. **Can Sealer** Motorised with Pressure Gauge 1/2 HP Motor
  8. **Can Sealer** Motorised with Pressure Gauge 1 HP Motor
  9. **Potato Slicing Machine** with 0.5 H.P. motor
  10. **Potato Slicing Machine** Hand Operated
  11. **Vaccum Bottle Filling Machine** with 2 Head
  12. **Bottle Washing Machine** with 2 Head with 0.5 H.P. Motor
  13. **Crown corking machine** Hand Operated
  14. **Crown corking machine** Foot Operated
  15. **Fruit Crusher** with 1 H.P. Motor Cap. 100Kg. S.S.
  16. **Plastic Bag sealing Machine**
  17. **Enamel Tray without cover** 8" x 6"
    - 10" x 8"
    - 11" x 9"
    - 12" x 10"
    - 14" x 12"
    - 18" x 12"
  18. **Stainless Steel Tray** 10" x 8"
    - 12" x 8"
    - 15" x 12"
    - 18" x 12"
  19. **Steam Jacketted Kettle** mounted on M.Steel with Tilting



KI-350(28)



KI-351(1)



KI-351(4)



KI-351(6)



KI-351(9)



KI-351(11)



KI-351(13)



KI-351(19)

arrangement through worm gear. Jacket & pan made of 10/10 SWG SS. Complete with pressure gauge, safety valve & pet cock. Capacity 112 Lit.

20. **Dosa Grinder** S. Steel Capacity 2 Lit.  
3 Lit.  
5 Lit.
21. **Baking Oven** Complete with 2 Trays & one Wire mesh Tray for Bread, Biscuits, Pizza & Cake.  
Inner Chamber Size : 16"x 13"x 9" (Height)  
20"x 20"x 9" (Height)  
24"x 21"x 9" (Height)  
34"x 26"x 9" (Height)
22. **Masala Grinder Medium Size**  
--- do --- but Big Size
23. **Electric Driven Milk Testing Centrifuge** (Gerber Centrifuge) 24 Tests with reverse Brake, Automatic Timer 0 - 5 Minutes
24. **Milk Analyzer Digital** for Milk Fat Testing upto 30%. Mains cum battery operated. It can perform 120-150 Test/Hr. Automatic change over switch to Battery in case of power failure.
25. **Automatic Milking Machine** with one cane and one cluster Electrically driven
26. **Domestic Atta Chhakki Capacity : 8/9 Kg. per Hour**  
15 Kg. per Hour
27. **Deep Fat Fryer** S.Steel 2 Baskets Overall Size : 18"x24"x34" with 3 KW Element. Basket Size 8"x16"x8"
28. **Rosing Machine** For Juicing Lemons & Light Skin Oranges, S.Steel contact Parts Hand operated  
-- do -- but Motorised with 1/2 H.P. Motor having 2 Heads
29. **S.Steel Storage Tank** Mounted on M.S. Stand S.S. Lid & outlet Cock. Capacity 100 Lit.
30. **Apple Cum Pineapple Crushing Machine** S.Steel contact parts with 1 H.P. Motor

31. **Food Processor** with 5 different type of Cutting Knives Imported  
-----do----- but Indian

## SOIL TESTING INSTRUMENTS

### KI 352

1. **Liquid Limit Device (Hand Operated)**
2. **Liquid Limit Device (with Counter)**
3. **Liquid Limit Device (Motorised)**
4. **Proctor Compaction Apparatus** IS:2720 Part(VII)
  - a) Consists of Compaction Mould 100 mm dia x 127.3 mm made of M.Steel
  - b) Rammer 2.6 Kg. x 310 mm fall
  - c) Rammer 4.89 Kg. x 450 mm fall
5. **Soil Density Test App:** (Core cutter method)
6. **Field Density App.:** (Sand Replacement method) 10 cm. 2720 (Part XXVIII)
7. **Test Sieves:** 20 cm dia Brass Frame as per ISS:460. 4.75mm, 2.36 mm, 1.18 mm, 600, 300 & 150 microns, Lid & Pan (Set)
8. (i) **Sieve Shaker** for 20 cm Dia sieves Hand Operated  
(ii) **Sieve Shaker** for 30 cm Dia sieves Hand Operated  
(iii) **Sieve Shaker** for 45 cm Dia sieves Hand Operated  
Gyratory Motorised (KI-133)
9. **Rapid Moisture Meter Range : 0-50% OR 0-25%**
10. **Torsion Balance Moisture Meter**
11. **Post Hole Augers** Complete with 1 meter rod & handle 50mm  
50mm                      75mm                      100mm                      50mm
12. **Screw Augers** Complete with 1 meter rod & handle 38 mm  
50 mm
12. (a) Spare extraction rod 1 meter for above
13. **Automatic Soil Compaction Apparatus** with MS moulds



14. **California Bearing Ratio Test Apparatus Laboratory:**  
Load frame, hand operated, complete with Proving Ring.
15. **CBR Test Moulds:** 50mm dia & 175 mm hig, Complete with base plate & collar 150mm dia 50mm high made of steel.
- 15 (a) --do-- but made of Gun Metal
16. **Penetration Piston** face dia 50 mm bracket
17. **Displacer Block** 148mm dia x 47.7 mm long
18. **Surcharge Weight 2.5 Kg with central hole/slotted**
- 18 (a) --do-- but 5 Kg
19. **Perforated Brass Plate with lock nut stem**
20. **Cutting Collar & Tripod (Aluminium)**
21. **Dial Gauge** 0.01 mm x 25 mm Tripod (Indian Make)
22. **Proving Ring** duly calibrated by Shriram Test House, Delhi with report 1000 Kg, 5000 Kg.
23. **Cone Penetrometer**
24. (i) **Consolidation App.** Single gang with dial gauge 0.002 mm x 5 mm
- (ii) **Consolidation App.** Three gang with dial gauge 0.002 mm x 5 mm
25. **Direct Shear Apparatus** Motorised 12 speed without dial gauge & proving ring  
(Proving Ring 200 Kg with test certificate)
26. **Dial Gauge 0.01mm x 25 mm Travel (Indian Make)**
27. **Extractor Frame (Unuiversal)** 38, 75, 100, 150 mm sample
28. **Extractor Frame (Hydraulic)** 100, 150 mm Sample
29. **Load Frame Mechanically** Hand operated 5 tonnes Channel type, Complete with Proving Ring & Dial Guage
30. **Load Frame Motorised** 1.25 mm/ min. Cap.: 30 KN for CBR IS Spec.
31. **Load Frame Motorised** 1.25 mm/ min. 8 speed Cap.: 50 KN for CBR

32. **Load Frame Motorised** 1.25 mm/ min. 30 speed Cap.: 50 KN CBR
33. **Load Frame Motorised** 1.25 mm/ min. 3 speed Cap.: 30 KN for CBR
34. **Load Frame Motorised** 1.25 mm/ min. 6 speed Cap.: 20 KN for Triaxial Cell
35. **Planetary Mixer Special Oil Gear Box**
36. **Soil Trimmer Hand operated**
37. **Soil Trimmer Motorised**
38. **Sedimentation Apparatus**
39. **Permeability Apparatus** IS2720 (Part XVII) with tank made of M.Steel 38 cm dia x 1meter high
40. **Pipette Method** (Grain Size Analysis Apparatus) IS 2720 (Part V)

## BITUMEN & PAINT TESTING INSTRUMENTS

### KI353

1. **Ductility Testing Apparatus** as per IS 1208. Electrically operated
2. **Ductility Moulds**
3. **Bitumen Extractor** Hand operated Cap.:1000ml
4. **Bitumen Extractor** Motorised
5. **Benkelman Beam Special**
6. **Standard Penetrometer**
7. **Marshal Stability Test Apparatus**
8. **Marshal Mould** Complete with base plate & collar
9. **Compaction Hammer** 10 lb (4.54 Kg) 18" (457mm) fall
10. **Paint Scratch Hardness Tester** Hand operated
11. **Paint Pressure Test Apparatus**
12. **Tubular Impact Tester**
13. **Flow Cup** with stand B-4
14. **Flow Cup** with stand B-6



15. **Hegman Gauge** 100 micron with wooden body
16. **Automatic Scratch Tester** (Sheen Type) 1.5 Kg Load
17. **Standard Applicator** Multisize 25, 50, 75 & 100 micron
18. **Wet Film Thickness Gauge**
19. **Cube Film Applicator**
20. **Salt Spray Cabinet** Size: 18"x12"x 15"
21. **Salt Spray Cabinet** Size: 20"x15"x15"
22. **Salt Spray Cabinet** Size: 24"x18"x15"
23. **Salt Spray Corrosion Cabinet** Size 36"x18"x20" mounted on moveable trolley with heater & Digital Temp. Indicator-cum-controller  
**Optional for item no. 20,21, 22:**
  - (i) Heating system for salt solution with thermostat
  - (ii) Heating system for salt solution with Digital Temp. controller
24. **Glossimeter** Digital Type with 45°/60° Angle Head
25. **Bend Test Apparatus Mandrel**  
**Size:** 1/4"  
           1/2"  
           3/8"
26. **Conical Mandrel Bend Test Apparatus**

## LABORATORY EQUIPMENTS

**KI 354 Retort Stand:**  
 Powder Coated Heavy Base with chrome plated Iron Rod  
 6"x4"x18"    7"x5"x24"    8"x5"x30"    9"x6"x30"    12"x7"x36"

1. **Burette clamp** Brass Oxidised with Bosshead Medium quality  
 —do— but superior heavy quality
2. **Fisher Type Burette Clamp** with Bosshead Aluminium Single
3. —do— Double

4. **Condenser Universal Clamp** with Bosshead. Brass Oxidised
- 4 (a) **Condenser Clamp** large for industrial use made of CI with bosshead
5. **Condenser Clamp** Cross Pattern 4 finger Brass Oxidised with Bosshead
6. **3 Finger Clamp** Brass with Bosshead Medium Size

		Large Size		
<b>KI 355</b>	<b>Petri Dish Box:</b>	Aluminium	12 Dishes	
		S.Steel	12 Dishes	
<b>KI 356</b>	<b>Pipette Box</b>	Sizes	S.Steel	Aluminium
		16"x2.5"		
		18"x3"		
<b>KI 357</b>	<b>Stand Tripods :</b>	Size	6"x4"	8"x5"

<b>KI 358</b>	<b>Retort Rings:</b> With Fixed Bosshead Cast Iron Hammertone finish				
	Size:	2"	2.5"	3"	4"
		5"	6"		

<b>KI 359</b>	<b>Spatulas Stainless Steel:</b> With one side spoon at one end or both sides flat				
	Size:	4"	6"	8"	12"

**KI 359 (a) Micro spatula** SS 6"  
 8"

<b>KI 359 (b) Ointment Spatula</b> with wooden handle				
Size:	6"	8"	10"	12"

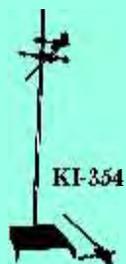
<b>KI 360</b>	<b>Crucible Tongs:</b> (Best Quality) S.Steel			
	Size:	6"	8"	10"
		15"	18"	24"



KI-353(16)



KI-353(23)



KI-354



KI-356



KI-357



KI-358



KI-359 & 360

- KI 361 Beaker Tong :** Standard size, Fisher type S.Steel thick wire  
Flask Tong : Standard size, Fisher type S.Steel thick wire
- KI 362 Aluminium Test Tube Stand:** Thick guage 12 /24 **Tubes**  
**Dia**  
12 mm  
15 mm  
19 mm  
25 mm  
38 mm
- KI 362 (a) Stainless Steel Test Tube Stand:** Thick guage 12 /24 **Tubes**  
**Dia**  
12 mm  
15 mm  
19 mm  
25 mm  
38 mm
- KI 363 (a) Bunsen Burner** Superior quality  
**KI 363 (b) Bunsen Burner** with stop cock.  
**KI 363 (c) Mecker Burner** without stop cock.  
**KI 363 (d) Mecker Burner** with stop cock.  
**KI 363 (e) Water Tap Swan Neck type** One way  
Two way  
Three way
- KI 364 Magnifier** complete with light & stand
- KI 365 Fixed Volume Micropipette:** With Autoclavable tipcone & builtin tip ejector. **Capacities Available: 1.0 µl to 1 ml.**
- KI 366 Variable Volume Micropipettes:** With Autoclavable tipcone & builtin tip ejector, click stop digital system, easy calibration & maintainance. **Capacities Available:**  
0.5-1µl/ 2-20µl/ 5-50µl/ 20-100µl/ 50-200µl/100-1000µl/  
200-1000µl

## SEED PROCESSING EQUIPMENTS

- KI 367 (a) Boerner Divider:** It Provides accurate splits of grain samples with an acc.of ± 5% on 1 Kg sample. Body & inner parts made of Brass.  
Number of pockets : 38  
Hopper capacity : 1 Kg.  
Size : 38"x17"x43" (Hx Wx D)
- KI 367 (b)** —do— but mini model
- KI 368 Precision Divider (Gamet Type):** Fabricated out of Chrome plated Brass and Mild steel. Centrifugal Action, 0.5 HP motor driven.  
Hopper capacity : 2 Kg.  
Size : 38 x 31x 51cm (Approx.)
- KI 369 (a) Riffle Divider:** It is used for dividing or halving dry material.  
Width of Chutes : 2"  
No. of Pan : 4  
Hopper Siz : 19.5"x 19.5"
- KI 369 (b) Riffle Divider:** It is used for dividing or halving dry material.  
Width of Chutes : 0.5"  
No. of Pans : 4  
Hopper Size : 11"x 6.75"
- KI 370 Sample Sheller ( Lab Model Paddy De Husker):**  
Sample Capacity : 1000 gms  
Power : 0.25 H.P. Single Phase.  
Dimensions : 715 x 335x 795mm ( LxBxH)
- KI 371 Lab Model Rice Polisher:** With 0.5 H.P. single phase motor,  
Sample Capacity : 80 gms.
- KI 372 Grain/Rice Sizing Device:**
- |             |           |           |
|-------------|-----------|-----------|
|             | (a)       | (b)       |
| Screen Area | 600x250mm | 300x125mm |
| Weight      | 55 Kg.    | 25 Kg.    |



Sample Size	500gm.	100 gm.
Grain Sizing	1.6, 3.2, 4.8mm	1.6, 3.2, 4.8mm

- KI 373 Seed Analysis Kit:** It comprises of 1No. Dispensing Balance, 1no. hand magnifier, 1 set of Parkhi (9",12",14"), Scoop set, 1no. enamelled plate (12" dia), 1 no. palm husker, measuring cylinder (10cc, 50cc, 100cc), 1 no. forcep, 1 no. Brass seed caliper, 1 no. Petri dish packed in a compact brief case.
- KI 374 Illuminated Purity Work Board:** It is used for grain grading and checking for stress cracks, germ damage and seed viability. A light placed under and shining through the glass assists in critical examination of the sample.
- KI 375 Seed Dial Caliper:** Analog measuring device for measurement of length and breadth of seeds.
- KI 376 Seed Grading sieves:** Made of Brass. Set of 6 sieves including lid & pan
- KI 377 Digital Automatic Seed Counter:** It is designed for sampling and batch counting of seeds with Digital display and thumbwheel preset counter. For seed of minimum 3 mm dia. Acc.: ± 10%
- KI 378 Seed Storage Cabinet:** Fabricated out of PCRC sheet duly painted Size of tray: 12" x 12" x 4" having 4 compartments. The cabinet is provided with Index card holder, handle and lock & key.  
**Size :** 72" x 30" x 14" with 30 Trays (Or 50" x 43" x 14")  
 49" x 30" x 14" with 20 Trays  
 21" x 30" x 14" with 10 Trays
- KI 379 Seed Germinator: Please refer item no. KI 217 at page 18.**
- KI 380 Seed Blower (Dakota Type):** Suitable for cleaning samples of seeds & grains. Provided with 1/4 H.P. Motor which helps in separation by controlling the flow of air upward. Complete with 1 min. timer & On/Off switch. without tube set

**KI 381 (a) Digital Seed Moisture Meter Universal type:** Direct Reading type.

Range	3.5-40% ± 0.2%
Principle	Resistance Measurement
Display	3 Seven segment FND.
Power	Six 9V dry cells or 230V
Temp.	Automatic
Special Features	*Direct reading display for all commodities *RS-232 Interface *Separate code for each commodity *No Arithmetic Required. *Room Temp. display.

**KI 381 (b) Digital Seed Moisture Meter Universal type:** Auto Calibration

Range	3.5-40% ± 0.2%
Principle	Resistance Measurement
Display	2 x 16 columns. LCD display
Power	Six 9V dry cells or 230V
Temp.	Automatic
Special Features	*Menu driven operations *Direct reading display with room temp. *RS-232 Interface *Backlit facility, real time Clock. *Date-Time Setting available. *Calibration check and re-calibration through software

**KI 382 (a) Digital Grain Moisture Meter:** Pin Type Range: 6- 30 %.  
 Display: 4 Digit LCD display. Suitable for Wheat, Paddy, Rice, Maize, Soyabean, Barley, Coffee, Cocoabeans, Oilseed rape, Mustard seed, Peas, Sunflower, Sugarbeet Seed, Flour/Soft Wheat, Beans.

**KI 382 (b) Digital Grain Moisture Meter:** Cup Type, Range: 3- 35 %  
 Suitable for Wheat, Paddy, Rice, Maize, Soyabean, Barley, Rapeseed, Cotton seed, Millet, Mung bean, Peanut pip, Sunflower seed



## PHARMACOLOGY EQUIPMENTS

- KI 383**
1. **Venous Cannula**
  2. **Arterial Cannula**
  3. **Smoking Stand** to take cylinder (6" or 10") with SS Spindle, W/O burner
  4. **Smoking Burner Gas**
  5. **Long Paper Smoker & Varnisher** Wall with hand drive
  6. **Long Paper Smoker & Varnisher** with motor drive
  7. **Tuning Fork with Stylus**
  8. **Simple Lever**
  9. **Heart Lever Starling**
  10. **Frontal Writing Points**
  11. **Isotonic Lever**
  12. **Muscle Clip with stem to fit X Block**
  13. **Heart Clip frog SS**
  14. **Modern Operating Table:** SS Top 127 x 45 cm in two sections sloping towards central drain, warming chamber, caster, moving handles with animal holder & Ss tray and two moveable uprights
  15. **Small Animal Operating Table:** SS top, adjustable head holder, tying cleats, cut back at the head end with warming chambers
  16. **Stethograph or Pneumograph:** Corrugated rubber tube with side clips, open link chain for use with any tambour.
  17. **Spirometer:** Cap. 6 Lt. with chain compensate counter balance to float through pulley, calibrated to donate volume, inlet & outlet tubes. SS chamber with corrugated rubber tube and mouth piece
  18. **Spirometer:** Specs same as above but cap. 3 Lt.
  19. **Student Jar Bath:** Height of bath 15 cm.
  20. **Dual Bath for Isolated Tissue:** Perspex bath having size 9"x6"x7" Fitted with heater and thermostat.

21. **Monobath:** Thermostatically controlled with stirrer, glass inner vessel, oxygen tube, frontal lever from SS capillary
22. **Organ Bath:** Uprights, Organ & oxygen tubes frontal lever from capillary tubing 3/4 Lt. capacity. Thermostatically controlled.
23. **Isolated Organ Bath:** Perspex bath fitted with two sets of glass inner vessels, oxygen tubes and frontal writing levers from capillary tubing, hook grips & 4 each of SS uprights & X Block.
24. **Electroconvulsometer:** Provides 50Hz. alternating current. Complete with one pair corneal electrode 4,6 or 8 mm cups and one pair of ear clips work on 220V,AC
25. **Analgesiometer:** Contact Heat Type
26. **Analgesiometer:** Eddys Hot Plate
27. **Cooks Pole Climbing Apparatus**
28. **Digital Photoactometer ( Activity cage):** With six photo cells with digital totalizer or counter
29. **Histamine chamber:** Complete with Sphygmomanometer & Nebulizer
30. **Simple Hair Aesthesiometer:** Ungraduated
31. **Compass Aesthesiometer:** With two point and an adjustable micrometric screw.
32. **Vernier Aesthesiometer:** With graduated scale and vernier with two point.
33. **Bicycle Ergograph:** For muscular Fatigue
34. **Isolated Organ Bath** Complete, Two unit isolate organ bath
35. **RotaRod Apparatus:** With Digital counter, for determining neuropixivity, muscle tone, balance & motor coordination in rats & mice. Compartment size 75 mm wide with a rotating rod of 25 mm dia having speed 5,10,15,20 & 25 RPM  
Two Compartment  
Three Compartment  
Four Compartment



## Terms & Conditions

- Installation** : Unless specified by the buyers 'Khera Instruments Pvt. Ltd.' would not install the instruments at the premises of buyers. If the apparatus, instruments etc. is installed by the buyers themselves & the instrument/apparatus gets damaged, the supplier would not be responsible. Installation charges are extra according to distance of destination.
- Price** : All prices are Nett. Ex-Godown, Delhi. Packing, Forwarding, Freight, delivery and installation charges will be charged extra at the cost of the buyers.
- Taxes** : Vat or Central Sales Tax shall be charged as per rates Applicable. Form 'C' should be sent along with order; otherwise full Central Sales tax shall be charged extra.
- Insurance** : If the goods are not insured against breakage or loss, we shall not be responsible for any loss or damage in transit. The goods can be insured against breakage or loss at 2.5% on the invoice.
- Warranty** : All the instruments are warranted for one year from the date of purchase against any manufacturing defect.
- Jurisdiction** : All disputes are subject to Delhi Jurisdiction.
- Payment** : 30% advance along with the order, balance against documents through Bank, for dealers.  
: For Govt. the documents will be sent against 90% payment through bank as per decision of all India Instruments Manufacturers & Dealers Association and the balance 10% is to be paid on receipt of the consignment.
- Banker's Name** : All Parties are requested to mention there Banker's Name while placing the order.
- Specification** : Khera Instruments Pvt. Ltd. reserve the right to make changes in the instrument designs in accordance with mechanical process. Illustration are, therefore not binding.
- Note** : We reserve the right to supply the order in full or part.  
: Goods once sold will not be taken back.