

- 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 H₂O 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 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 **Cleveland 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 (Dia x Ht)
 10 cm x 20 cm (Dia x Ht)
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 (Dia x 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 Gauge 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 Gauge 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 Gauge Non Recording** Symon type, FRP with plastic cylinder
- KI 334 Rain Gauge 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 Gauge** 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 Psychrometer 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.

Optional: Digital Conductivity Meter in lieu of analog
KI 348 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

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. **Saphostroy Mould** 6 holes
24. **Saphostroy 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

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

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



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



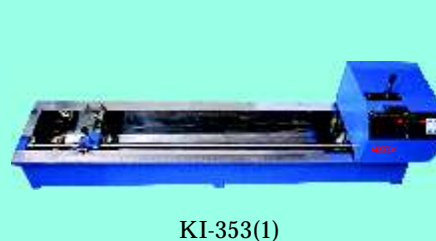
14. **California Bearing Ratio Test Apparatus Laboratory:**
Load frame, hand operated, complete with Proving Ring.
15. **CBR Test Moulds:** 50mm dia & 175 mm hig, Complete with base plate & collar 150mm dia 50mm high made of steel.
- 15 (a) --do-- but made of Gun Metal
16. **Penetration Piston** face 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



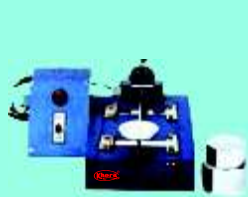
15. **Hegman Gauge** 100 micron with wooden body
16. **Automatic Scratch Tester** (Sheen Type) 1.5 Kg Load
17. **Standard Applicator** Multisize 25, 50, 75 & 100 micron
18. **Wet Film Thickness Gauge**
19. **Cube Film Applicator**
20. **Salt Spray Cabinet** Size: 18"x12"x 15"
21. **Salt Spray Cabinet** 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**

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		
KI 355	Petri Dish Box:	Aluminium	12 Dishes	
		S.Steel	12 Dishes	
KI 356	Pipette Box	Sizes	S.Steel	Aluminium
		16"x2.5"		
		18"x3"		
KI 357	Stand Tripods :	Size	6"x4"	8"x5"
KI 358	Retort Rings: With Fixed Bosshead Cast Iron Hammertone finish			
	Size:	2"	2.5"	3"
		5"	6"	4"
KI 359	Spatulas Stainless Steel: With one side spoon at one end or both sides flat			
	Size:	4"	6"	8"
		12"		
KI 359 (a)	Micro spatula SS	6"		
		8"		
KI 359 (b)	Ointment Spatula with wooden handle			
	Size:	6"	8"	10"
		12"		
KI 360	Crucible Tongs: (Best Quality) S.Steel			
	Size:	6"	8"	10"
		15"	18"	24"

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



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 $\pm 5\%$ 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. |



KI-363(b)



KI-363(d)



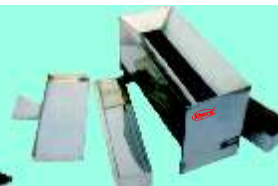
KI-366



KI-367(a)



KI-368



KI-369



KI-370



KI-371



KI-372

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

- 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 & nice. 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

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- Jurisdiction** : All disputes are subject to Delhi Jurisdiction.
- Payment** : 30% advance along with the order, balance against documents through Bank, for dealers.
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