



## **YSP- HISTOPATHOLOGY LAB SOLUTION.**



PRODUCT CATALOG  
**2023-24**

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# Rotary Microtome [Erma type]

MS - 70



YSP Rotary Microtome MS-70 is a histopathological Sectioning instrument having its design based on Erma Japan technology. It is precise in operation and dependable for long life.

All the mechanism is mounted on heavy cast iron base to make it vibration free. Interior parts are covered by protective aluminium casted dust cover, half the portion of which is hinged by and swings backward to expose the interior components for lubrication, lever engagement and feed release. With every revolution of the drive wheel, the feed panel engages precisely into the teeth of the ratchet wheel which moves forward and advances the object holder in steps of 1 to 25 microns

## TECHNICAL SPECIFICATION

Feed Adjustment	1-25 Microns (in steps one Micron each)
Total feed excursion	28 mm.
Overall dimensions	30cm x 25cm x 25cm
Weight	20 Kg (Approx)
Accessories	Object holders 3 (assorted) One knife 120mm with back and handle Honing stone Oil can for Lubrication.
Finish	Powder Coated in study wooden box.



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# Senior Rotary Microtome

## MS - 80

YSP Senior Rotary Microtome MS-80 is a standard sectioning instrument having latest technical design. It is outstanding for its precise operation, dependability and long life. A heavy, rigid base supports the internal mechanism and knife holder. The protective cover is hinged to the base and swings back to completely expose the interior parts, thus permitting easier access for cleaning and lubrication. Its feed mechanism is independent of the vertical movement of the object block. With every revolution of the counter balanced drive wheel the feed engages precisely into the teeth of the ratchet wheel which moves forward and advances the object holder in such precise increments that tissue can be sectioned down to even one micron in thickness. Automatic disengagement of feed mechanism prevents jamming and damage to feed screw.



### TECHNICAL SPECIFICATION

Feed Adjustment	1-50 Microns (in steps one Micron each)
Total feed excursion	28 mm.
Overall dimensions	16"x10"x9"
Weight	30 Kg (Approx)
Accessories	Object holders 3 (assorted) One knife 120mm with back and handle Honing stone Oil can for Lubrication.
Finish	Powder Coated in study wooden box.



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# SLIDING / SLEDGE MICROTOME

MS - 100/100A



These designed for cutting large block of paraffin and resin Embedded material including whole organs for light microscopy. The Knife holding clamps allow the knife to be offset to the direction of cut a major advantage when sectioning large hard blocks.

## SALIENT FEATURES

HEAVY FOR STABILITY- SMOOTH MOVEMENT

DURABLE POWDER COATING PAINT

VIBRATION FREE DURING CUTNG HARD LARGE BLOCKS OF PARAFFIN AND EMBEDDED MATERIAL

**TECHNICAL SPECIFICATION** > Heavy casted base machined, precision ground. The base & slider are finished with durable powder coating paint. > Simple action of pushing & pulling slider forward and back using the operating handle. > Unique design of the handle more action of pushing & pulling automatically advances & retracts the specimens. > With automatic feed mechanism with micron feed from 0-20/1-50 micron in step of 1 micron for cutting hard & large paraffin specimens. > Heavy duty model to avoid vibration during cutting section > Knife holder hold microtome knife of 200mm special tool steel fabricated > Extra wide object holder vise > Smooth movement on stainless steel rails > Supplied complete with one Knife, having back & handle in box, one bottle of lubricating oil and dust cover, instruction manual, block 3pc in wooden box. > Certified ISO 13485



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# Advance Rotary



## Microtome

Rotary Microtome Model Magnacut is a manually operated Microtome, used to produce thin sections of specimens of different hardness in both routine and research applications in Laboratory, Pathology and Histopathology, biology, medicine and institutes. Our Rotary Microtomes are designed to section soft materials embedded in paraffin as well as harder specimen, provided those specimen are still suitable for manual sectioning. The instrument ensures life-long smooth operation. Individual components are fabricated and assembled from graded material using latest technology.

Range of Section thickness 1  $\mu\text{m}$  to 50  $\mu\text{m}$  in steps of 1  $\mu\text{m}$

Front Located Feed Indicator & micron setting Knob

Robust & advanced ratchet gear cam drive system for accurate feed

All locks & adjustments are readily accessible for fast & safe operation

Independent feed mechanism with safety locking device to lock the hand wheel

Universal vice type object holder for accurate centering of the specimen.

Microtome knife of special tool steel -120mm with handle in box.

Universal knife holder with lateral movements to permit use of complete knife-edge

Knife holder conveniently suited for Microtome Knives & Disposable Blade Holder

Protective cover for easier cleaning and lubrication

Heavy and rigid base to render a shake proof operation

Supplied with standard acc.

### Standard Accessories

Block holder - set of 03. (as ordered)

Tissue embedding rings-12pcs. (as ordered)

L Moulds - 50 x 25 x 20 mm - 1 set.

Dust cover - one.

Hone stone - one.

Oil can- one .

Instruction manual - one.

### Optional Accessories

Disposable Blades attachment



# SEMI AUTOMATIC MICROTOME



Semi-automated rotary microtome ideal for routine sectioning and research application in pathology, histology, pathology textile and other research laboratories.

Easy operation, safety & high precision specimen feed, stable performance to provide high quality sectioning results. Universal specimen holder is provided along with a standard cassette holder for paraffin embedded tissues.

Stable performance to provide high quality sectioning results. Universal specimen holder is provided along with a standard cassette holder for paraffin embedded tissues.

## SALIENT FEATURES

- Fast and effortless trimming
- Lcd display
- Shorten cleaning time with waste tray
- East to operate
- Soft touch keypad

## TECHNICAL SPECIFICATION

Total section thickness range from 0.5 – 100um.

Specimen retraction during retravel 5-100um in 5 um

Horizontal specimen feed approx. 60mm

Sectioning modes- 1 manual mode

Specimen orientation horizontal: 8°, vertical: 8°, Z: 360°

Object feed 28mm

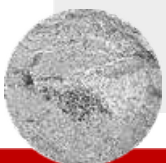
Trimming thickness: 1-600um

Operation semi-automatic

Max specimen size: 50x50mm

Nominal voltage: 220V,50Hz/110V, 60Hz

Dimensions: 600X350X320mm



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# Fully Automatic MICROTOME



**MS - 400** The Fully Automatic Rotary Microtome provides utmost reliability, user benefit and outstanding operator comfort. Great basic stability and precision, make this microtome a real multi-purpose instrument that meets the requirements both in paraffin and hard sectioning techniques of the biological, medical and industrial lab

## SALIENT FEATURES

- Section thickness display
- Adjustable knife angle
- Coarse free hand-wheel
- Section thickness
- Adjustable knob
- Spacious section waste tray
- Integrate finger guard
- Cross roller guide ways

## TECHNICAL SPECIFICATION

- > Rust proof construction
- > Lockable hand wheel at any position allowing change of blade/ specimen easier and safe
- > Large storage capacity on the top of the instruments for easy access of tools
- > Ergonomic and user friendly design
- > Slicing/Trimming mode
- > LCD display with feather touch keypad
- > Horizontal feed- 28 mm
- > Vertical specimen stroke- 70 mm
- > Specimen holder rotation at angle within 360°
- > Specimen orientation- XY-8°
- > Maximum specimen size- 70x70 mm
- > Dimensions- 600x350x320mm



# MANUAL CRYOSTAT MICROTOME CMM-01



This is used for cutting Tissues at Low Temperature.

## SALIENT FEATURES

ERGONOMIC  
DESIGN EASY TO  
READ LCD SCREEN  
RAPID REFRIGERATION MODE ALLOWS DESIRED TEMPERATURE DROP IN  
120MIN WORKING AREA IS EASY TO CLEAN AND DISINFECT

## TECHNICAL SPECIFICATION

- > Sectioning thickness range  $1\mu\text{m}$ - $30\mu\text{m}$  in  $1\mu\text{m}$  increments
- > Freeze shelf lowest temp.  $-35^{\circ}\text{C}$
- > Cooling down time to  $-40^{\circ}\text{C}$ : 120min
- > Easy to operate control panel
- > Spacious, stainless steel cryo chamber
- > Anti-glare illumination
- > Heated glass window for clear visibility
- > Automatic defrosting system
- > Built in drainage system
- > Easy mobility with heavy duty castors
- > Hermetically sealed and thermostatically control refrigeration



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# SEMI-AUTOMATIC CRYOSTAT MICROTOME

**CMM-02**



CMM-02 is used for cutting Tissues at Low Temperature.

**SALIENT FEATURES** MOTORISED FEED CONTROL  
LCD SCREEN USER FRIENDLY CONTROL PANEL  
ANTI-STATIC DISPOSABLE BLADE HOLDER DUAL  
COMPRESSOR UV STERILIZATION

## **TECHNICAL SPECIFICATION**

- > Dual compressor for rapid freezing.
  - > Arbitrary switching b/w trimming & Sectioning
  - > Adjustable Cutting angle
  - > Portable with 4 castors
  - > Blade holder with finger safety
  - > Enclosed drainage system
  - > Anti-roll device
  - > Frost free encapsulated microtome assembly
  - > Visible operating parameter at all time
- 
- > No. of Freezing section: 10
  - > Trimming range: 1-600mm
  - > Lowest temperature unit: -40°
  - > Quick Freeze shelf:  $\leq -50^{\circ}$
  - > Max. specimen size: 35x35mm
  - > Vertical Specimen stroke: 65mm
  - > Horizontal Specimen feed: 25mm
  - > Cooling downtime to: -40°C
  - > Specimen Orientation: 8°(X-Y Axis)
  - > Cryo chamber temperature: -1 to -40°C adjustable.
  - > Specimen Retraction: 5-75 mm in 1 mm increment.
  - > Motorized Coarse feed: 480mm/sec
  - > Voltage: 220V
  - > Section thickness Range- 1-100 mm
  - > Increment Range (I-IV):
    - From 1-5mm in 0.5 mm increments
    - From 5-20mm in 1 mm increments
    - From 20-60 mm in 5 mm increments
    - From 60-100mm in 10 mm increments



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# FULLY-AUTOMATIC CRYOSTAT MICROTOME

CMM-03



Fully automatic cryostat microtome is used for cutting Tissues at Low Temperature.

## TECHNICAL SPECIFICATION Type of instruments:

Freestanding cryostat with encapsulated, splash proof Rotary Microtome.

- > Type of microtome: Automatic microtome
- > Operation of microtome: "electronically controlled motorized"
- > Coarse feed- slow: 300 $\mu$ /s, 20 $\mu$  steps fast: 900 $\mu$ /s
- > Max specimen size: 55x55mm
- > Section cutting via hand both manual and motorized automatic
- > Provision of hand wheel: mechanical only
- > Chamber illumination light: bright white light
- > Chamber cooling: minus 35 $\pm$ degree
- > Specimen cooling temperature: - 45 $\pm$ 5 degree
- > Section thickness range in:  
1 to 100 1.0 $\mu$ m-0.5 $\mu$ m in 0.5 $\mu$ m step 5.0 $\mu$ m-20.0 $\mu$ m in 1.0 $\mu$ m steps 20.0 $\mu$ m-60.0 $\mu$ m in 5.0 $\mu$ m steps 60.0 $\mu$ m-100.0 $\mu$ m in 10.0 $\mu$ m steps
- > Vertical stroke length in mm: 60mm $\pm$ 2
- > Horizontal feed range: 26 $\pm$ 2
- > Duration of the defrost cycle in minutes: 10
- > Power Supply: 230V, 50Hz Single phase



# Automatic

Tissue Processor Microprocessor Based



## ATP-61

YSP is continuously setting new standards in instrumentation with technically advanced and innovative products for application in specimen preparation. The YSP automatic Tissue Processor perfectly blends modern technology with ergonomic user-friendly design concepts. With maximum focus on Tissue safety during the entire run cycle, based on a well-engineered and robust machine and an extremely versatile programming interface – the YSP becomes a preferred choice for tissue processing.

**SALIENT FEATURES** Carousel type with 12 stations Option: two basket loading Option: 2 litre capacity Tissue baskets made of SS Recessed control panel with LCD Display Infiltration time separately programmable for each station Delayed start function from 1 hour to 99 hours Possibility of interrupting an automatic process for reloading or removing cassettes for special applications before end of a run Easy editing and changing of programs, even during processing run Audible alarms, error messages and warning codes Advanced safety features Wide range of accessories

### TECHNICAL SPECIFICATION

- \* Provision of alarm or error messages
- \* Sealed work surfaces
- \* Wax flow control system
- \* 3.0 liter paraffin tank
- \* Four-position, integral forceps warming block
- \* Ready to use with electrically heated forceps
- \* Hot plate :: 55° C to 70° C
- \* Paraffin tank : 40° C to 70° C +/- 1 ° C
- \* Reduced cross contamination
- \* Brightly lit orientation space for block preparation
- \* Superior design & construction
- \* One collection tank for easy cleaning
- \* Flexible gooseneck magnifying glass
- \* Cold plate :: -15° C
- \* Tissue storage :: 40° C to 80° C
- \* Power Supply : 220-230 V, 50 Hz. Ac



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# SLIDE STAINING MACHINE

ASSM-105



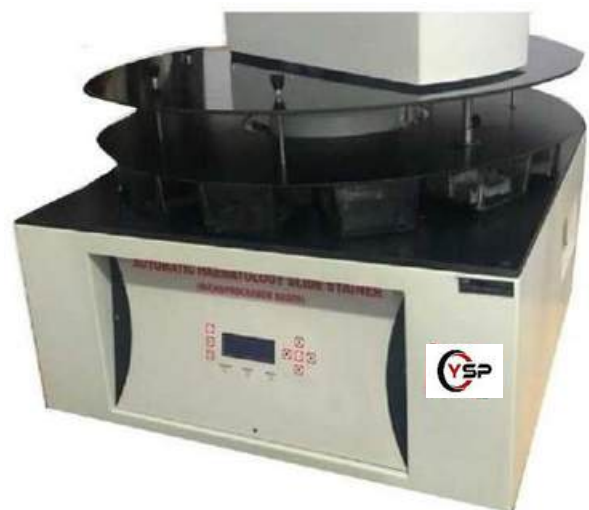
ASSM-105 is operated through a keyboard. The most advance SSM-17 to enhance control of different requirement in staining technique starting from the routine haematological techniques to the most advance of staining in cytology and histology. It cut down the time and labour required to manually dip the slides through different reagents.

## SALIENT FEATURES

- FEATHER TOUCH KEYPAD
- DIGITAL DISPLAY
- BATTERY BACKUP TO RETAIN DATA
- EASY OPERATED
- COMPACT SIZE

## TECHNICAL SPECIFICATION

- > Digital Display for adjusting the timing sequence
- > Battery backup to retain data
- > Durable construction
- > Twelve staining troughs
- > High Specimen Throughput
- > Easy operated and Easy Maintenance
- > Compact size
- > Maximum output by offering high specimen
- > Minimum reagent exposure
- > Easy Maintenance
- > Trough Volume- 450ml
- > Trough Capacity- 15 slides
- > Ideal for haematology and staining with 12 Glass staining trough, 1 slide carrier Dust cover, Oil can
- > Suitable for work on 220V, Single phase, 50Hz, AC supply



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# Microprocessor Slide Staining Machine



## ASSM-106

Microprocessor Slide Staining Machine specially designed to meet all types of requirement in staining techniques starting from routine haematology techniques to the most advanced staining in cytology and histology.

- Automatic Slide Staining Machine with 12 stations, recommended for ("Haematology, staining blood films and bone marrow spreads etc;").
- A compact and rugged equipment designed on latest technology for automatic staining of slides in different reagents.
- The slides are Switch selectable for effective staining in a slide carrier (Capacity 16 slides).
- The last trough is provided with an inlet and outlet to enable washing of the residual chemicals.

### Key Features:

- Compact Bench Top Model.
- Perfect H&E Stainer for Routine Application.
- High Specimen Throughout.
- Minimum Reagent Exposure.
- Easy to Clean.
- Simple to operate.
- Highly recommended for Haematology and also for staining of Blood Films and Bone marrow spreads etc.

### Technical Specifications:

Working	Automatic
Starting Troughs	12
Trough Capacity	16
Inlet outlet Trough	01
Slide carrier	01
Power Supply	220V, 50Hz



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# Tissue Embedding Station

**TES-500**



We bring forth the TES500 Tissue Embedding Center that is clear and easy to operate. The TES500 has a high capacity module that is designed with temperature controllers, which can be adjusted, monitored and switched on & off independently. Besides this, the TES500 has an extra large work area and helps reduce constant shuffling of blocks between work areas in the lab. The TES500 has a modular design and identical working surface which permits to combine units in any configuration required for laboratory needs.

## FEATURES

The TES500 is made up of an embedding machine, a freezing part and the fission body. The detachable design allows the user to flexibly select between an embedding machine or the freezing part. It can be opened agilely. It is leak -proof and drop-proof. The LCD display shows the temperatures of the paraffin bath, thermostatic bath and paraffin nozzle. It has a multi level security protection system.

## TECHNICAL SPECIFICATION

- \* Provision of alarm or error messages
- \* Sealed work surfaces
- \* Wax flow control system
- \* 3.0 liter paraffin tank
- \* Four-position, integral forceps warming block
- \* Ready to use with electrically heated forceps
- \* Hot plate :: 55° C to 70° C
- \* Paraffin tank : 40° C to 70° C +/- 1 ° C
- \* Reduced cross contamination
- \* Brightly lit orientation space for block preparation
- \* Superior design & construction
- \* One collection tank for easy cleaning
- \* Flexible gooseneck magnifying glass
- \* Cold plate :: -15° C
- \* Tissue storage :: 40° C to 80° C
- \* Power Supply : 220-230 V, 50 Hz. Ac



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# Cold Plate



## CP-100

Cold Plate allows for fast and efficient cooling of paraffin blocks after embedding and prior to sectioning. The cooling plate temperature range goes as low as  $-15^{\circ}\text{C}$  and has the capacity to cool up to 80 cassettes at a time.

The compressor-cooled cooling area made of anodized aluminium; guarantees a homogeneous temperature distribution and is easy to clean.

### ADDITIONAL FEATURES

- Spacious cooling plate for up to 80 cassettes
- Cooling plate temperature range goes as low as  $-15^{\circ}$
- Programmable operating times

### TECHNICAL SPECIFICATION

Quick specimen cooling

Capacity to holds up to 100 cassettes on its larger working surface.

Better cooling with Teflon coating.

Environment friendly refrigerant.

Temperature:  $-10/20^{\circ}\text{C}$

Cassettes capacity: 100

Voltage: Ac 110V/ 220V @ 60Hz/ 50Hz

Dimensions: 790x480x470mm



# Tissue Flotation Bath

ATF-01



Tissue Flotation Bath, incorporates a feather touch keypad with LCD Display for setting the Water Bath, built-in memory for storing set temperatures, incorporated SMART LED lighting, removable borosilicate tray which can be easily cleaned. Precise temperature control through directly immersed probe. Corrosion resistant material for durability.

## Technical Specifications:

Temperature Range : ambient to 90°C  
Temperature Tolerance: + 1°C  
With Glass Dish & LED light

## Water Bath

Dimensions Inner (mm) 238x180  
Power 200VA



# Wax Bath

AWB-03



It incorporates a feather touch keypad with LCD Display for setting the Water Bath. Precise temperature control. Corrosion resistant material.

## Technical Specifications:

Temperature Range : ambient to 90°C  
Temperature Tolerance: + 1°C  
With Glass Dish & LED light

## Water Bath

Dimensions Inner (mm) 238x180  
Power 200VA



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# Paraffin Wax Dispenser

PD-305



Our Paraffin Dispenser offers a built-in solid paraffin separator, to prevent the dispenser nozzle from becoming clogged by solid or semi-solid paraffin your precious glass slides

Paraffin is dispensed through heated dispenser nozzles and the flow rate can be easily regulated as required to ensure trouble free paraffin dispensing in every type of working situation.

The digital display supports precise temperature regulation unequalled by other instruments available on the market.

## Standard Accessories

Function/Parameter	Technical Data
Environment of user	<ul style="list-style-type: none"><li>• Clean, dry and ventilated</li><li>• Stable work surface</li><li>• Relative humidity &lt;-80%</li></ul>
Ambient Temperature	+50C~400C
Power	300W
Applicable Voltage	220AC
Heating Range	Room Temperature up to 1000C
Setting Time Range	1-999min
Maximum Capacity	5 Litre
Dimensions (machine)	24*12*12 inches
Net Weight	19 kgs
Dimensions (package)	28*16*25 inches
Gross Weight	40 kgs



# Grossing Work Station

## GS-21

Grossing station for Medium & Large Labs comes with higher suction capacity, Ergonomically Designed with adjustable features that assist in high Productivity grossing as well as protects the user from inhaling harmful formalin fumes.



**TECHNICAL SPECIFICATION** >The cabinet is of seamless stainless steel 304 grade of 1mm medical grade framework and designed for enough working space, maintenance and cleaning is easy. > Exhaust Duct with high-speed fan for connection to building ventilation system with Back >Weighing Scale washable attached to measure organs up to 2 KG > Rulers for measurement Stainless Steel > Combination of yellow and white LED lights for minimizing reflection and better viewing > Size-60x42x70" > Built-in germicidal UV tube > Large Deep sink system > Magnetic Tool Bar for attaching the Grossing > Non-Breakable Polythene Dissecting > C-shaped Stainless Steel paper-roll/towelShelves for storage > DIGITAL CURRENT PROTECTION RELAY with trip time setting, 3 digit LCD with backlight, monitor current consumption and power inlet for safety > Power sockets for plugging of additional appliances like weighing scale, bone saw, camera > One pull-out faucet of 1.5 meters with an aerator for washing and cleaning the sample and grossing area. > Swan neck tap with wrist operated levers for hand wash, tap with aerator for washing small biopsy drain mesh with water > Water proof IP 68 controls/ switches and electrical.



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# Slides & Blocks Storage Cabinets

ASC/ ABC



YSP specializes in crafting versatile storage solutions, offering a range of slide and block storage cabinets in stainless steel (SS), mild steel (MS), and wooden variants.

These cabinets cater to diverse needs, seamlessly blending durability and aesthetics. The stainless steel cabinets ensure resilience against corrosion, making them ideal for sterile environments.

Mild steel cabinets provide robustness while being cost-effective, suitable for various industrial settings.

Wooden cabinets exude a classic charm while offering functional storage.

YSP's expertise lies in creating these cabinets with precision engineering, allowing for efficient organization and easy access.

Tailored to client preferences, YSP cabinets stand as a testament to innovation and quality.



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# Accessories



## Microtome & Cryostat Blades

Created with microtomists for microtomists, we offer a wide variety of products for both microtomes and cryostats. YSP blades will help you consistently produce great sections from hard, soft, or frozen specimens.



## Heavy Duty Disposable Blades - Coated Steel

It features a special steel coating to avoid any compression of sections.

It comes in a package of 10 blades with a cutting angle of 45°



## Quick Release Clamp

Fix cassettes or embedding rings both longitudinally and horizontally, with orientation on X-, Y-, and Z-axes using our Quick Release Clamp.



## Tissue Embedding Cassettes Embedded Ring

YSP excels in supplying a wide array of Tissue Embedding Cassettes and Embedded Rings, available in both plastic and steel options. These high-quality products facilitate seamless specimen preparation and processing in laboratories. YSP's commitment to innovation and reliability is evident in its comprehensive range of offerings, catering to diverse laboratory needs.





## YSP- HISTOPATHOLOGY LAB SOLUTION.



### CONTENT US

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CHENNAI - 600100**



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