



अखिल भारतीय आयुर्विज्ञान संस्थान, गोरखपुर All India Institute of Medical Sciences, Gorakhpur

(स्वास्थ्य एवं परिवार कल्याण मंत्रालय भारत सरकार द्वारा स्थापित एक स्वायत्त निकाय)

(An autonomous organization under the Ministry of Health & Family Welfare, Govt. of India)

No.: AIIMS/GKP/Admn/1520/2025-26

Date: 28.08.2025

Comp: 4566

Subject: Proposal for the Procurement of Automated Phlebotomy Tube Labeller, Que Management System (QMS) / Laboratory Information System (LIS), Turnkey set up for OPD, AIIMS Gorakhpur.

The AIIMS Gorakhpur is going to procure Procurement of Automated Phlebotomy Tube Labeller, Que Management System (QMS) / Laboratory Information System (LIS), Turnkey set up for OPD Make: ENERGIUM Co Ltd Model: HENm through the authorized Dealer M/s Kopran Laboratories as per Authorization letter enclosed with letter from Manufacturers.

2. The above-mentioned document is being uploaded for open information to submit their objections comments, if any firm any manufacturer regarding proprietary nature of the equipment/ accessories/ item within 14 days from the date of issue/ uploading of the notification.

3. The comment should be address to office of Administrative Officer, at AIIMS, Gorakhpur on or before 12th sept 2025 up to 17:00 Hrs. Email: procurementcell@aiimsgorakhpur.edu.in failing which it will be presumed that there no comments to offer and case will be decided on merits.

SD

Administrative officer
AIIMS Gorakhpur

A. Specifications -Automatic Phlebotomy Tube Labeller (APTL) - OPD

1. Should be able to select the correct type of Blood Collection Tubes (depending upon the Test request), print the labels (with or without bar codes) and paste the same labels on tubes; before discharging all the tubes and extra labels (as requested by the operator) as a complete 'kit' in a tray (per patient wise).
2. Should be able to prepare Blood Collection tubes simultaneously in Sequential mode and batch mode.
3. Should be able to use any tube size of 12-18 mm diameter and 75-100 mm length.
4. Should be able to use Plastic, Rubber, Film, capped tubes.
5. Number of Tube stocker: Minimum $6 \times 20 = 120$ and Maximum $7 \times 20 = 140$ Interchangeable stocking chambers in left side Compartment.
6. Each chamber having capacity to store up to 20 tubes.
7. It should also have an additional provision for "Printing and Pasting" any other tube type, automatically dispensing the same to the tray.
8. Should be able to discharge up to 7 different types of tubes per patient.
9. Minimum of 1000 Tubes/hr.
10. As per scope, 3 APTL instruments are proposed which will be attached to 5 phlebotomy stations. 3000 tubes per hour means at least 300 patients/hour. Also 5 Phlebotomy desk can cater this much of workload
11. 5 computers for 5 phlebotomy stations and 1 computer for APTL and General data monitoring of APTL Section
12. As per scope 6 PC will be installed with APTL & QMS software. The software will all be installed at all doctor desk for patient calling in OPD as per requirement.
13. The label size should be 50 mm x 30 mm, with a print width of 25-50 mm.
14. Printing should be direct thermal with a density of up to 200 dpi.
15. Print images should be PCX, BMP, JPG, GIF, or TIF.
16. System should have Two printer in-built.
17. Printing speed should be within 2.5 seconds per label during continuous printing.
18. The labelling position from the tube top should be 0-45 mm, as per the requirement.
19. Should be able to use different Bar code types, i.e. CODE39, CODE12B, Interleaved 2 of 5, 11x7 (CODABAR) etc.
20. Should have an onboard display and operational Panel.
21. Should be supplied with 5 KVA UPS with a minimum of 30 minutes back up.
22. Warranty of 5 years and a CMC of 5 years.
23. All essential accessories for the complete functioning of the equipment should be included in the quote, including barcode printer and scanner.
24. Power requirement 230 Volts, 50 Hz, Single Phase.
25. Integration with LIS (Laboratory Information Systems Via HIMS) & HIS (Hospital Information System) is provided by CDAC only. Integration will be done for billing data and OPD data (For QMS Purpose only). Patients' data will be store for 7 days. The information shared in software will be used for QMS and APTL only (a small module of LIS will be added/integrated with exiting HIMS)
27. The main LIS System will be provided by CDAC only

no specific
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Additional employee
may require for Biochemistry
in the lab. The lab. is provided by CDAC only. Integration will be done for billing data and OPD data (For QMS Purpose only). Patients' data will be store for 7 days. The information shared in software will be used for QMS and APTL only (a small module of LIS will be added/integrated with exiting HIMS)

18-8-25

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| | |
|--|--------------|
| Dome Type scanner barcode scanner for phlebotomists' desk | 5.00 units |
| Small Display System | 5.00 Units |
| Software for Tracking Display unit with maintenance | 1.00 Units |
| Software installation in other PC | 1.00 Units |
| Server Tower | 1.00 Units |
| Back up WIN server | 1.00 Units |
| 400 Token roll | 400.00 Units |
| 400 Barcode Roll | 400.00 Units |
| Turn key details | |
| Carry out the complete Glass partitioning/separation of the work site with controlled access. Carry out all Blood Collection area renovation, maintenance and preparation, doors, furniture, ceilings, lights, 3-unit split AC | |
| All electrical work required for commissioning and installation of equipment like cable wire, electrical outlets, switches, cable trenches, railings, etc. will be supplied. | |
| Registration Chair 2 pc | |
| Registration PC 1 Pc /Instrument. | |
| 5 Units Phlebotomist Chair, 5 Units Phlebotomist Table & Patient Chair 5 unit | |
| 80 Units patient waiting Chair. | |

Consumable specifications -

- The price for all consumable must be frozen
- Barcode Label- Plain-

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| Item | Material | Thickness |
|----------------|-----------------------------------|------------------------|
| Label | Alcohol resistance Direct Thermal | 76 plus minus 5 micron |
| Ghee | Acrylic emulsion adhesives | 18 plus minus 3 micron |
| Backling paper | Blue Glassine separator | 58 plus minus 7 micron |
| paper | Arcary Dennison, Direct Thermal | |
| Label material | Chrome | |

- Dimension- Label size 50mm width, 30mm height 1500pcs/roll (minimum) The spacing between two barcodes label must be A=3 mm and symmetric for all.
- Label Dimension C x D=50x30mm
- B=1mm spacing on both side along the length of 50mm which will make total
- Core design and size Circular with inner diameter=38mm.

1. A=3 mm; B=1mm; C= 50mm; D= 30 mm

2. Core design and size Circular with inner diameter=38mm.

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Head of Medical Laboratory
Head of Biochem. Instr.

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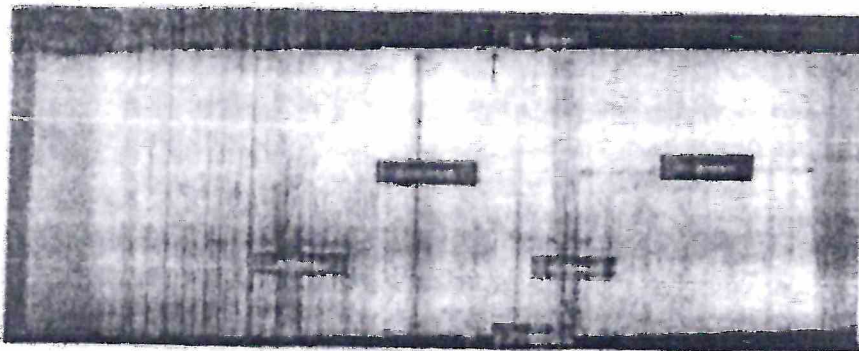
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- h. Require three kind of cores for three instrument variants . Samples for the same will be provided
- i. Core should be circular, Hard firm material and instrument specific
- j. Thickness of core material- 3mm
- k. Barcode labels- 1500/Roll
- l. Barcode lining- It should have Blue lining on edges (Border) of barcode along the length. Check the attached picture
- m. There should be company Logo inside core of Barcode roll
- n. Rolls should come in a box (Pack of 1x8).
- o. There should not be any joints between stickers
- p. All stickers should be symmetric

Pic- Barcode Roll-



2.Token Roll: 100 Units

- a. 1500 units Token / roll
- b. 30mm Diameter, length 50mm
- c. In between 2 token there must be 3 mm gap
- d. Direct Thermal paper with chrome materials.
- e. Edge gap should be 3 mm (max).
- f. In Token Roll, the AHMS logo should be printed on the backside of every token.

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8. The Display should provide the Counter/Room Number and Current Token number. The name of the patient, along with a token number and counter or consultation room number, may also be announced through the audio system provided for queue management. It is to be customisable depending on requirements.
9. Manual Barcode generators in this case are token printers. Which will print the token and scannable barcode for QMS. These token printers will be installed at OPD Registration counters, Billing counters.
10. The bidder must supply and maintain the software and backend system that manages token issuance, tracking, display unit, and Display system update for 5 years.
11. The bidder should install the software on all the existing hospital PCs used for the said work.
12. The Barcode token should include a name, date, a unique number and the Registration time.
13. Tokens should be issued from the registration counter only.
14. Bidder should supply at least 400 token and 400 barcode rolls during installation.
15. Bidder must quote the Token Roll cost and other consumables which are not covered in the warranty.
16. Warranty of 5 years and a CMC of 5 years.
17. The bidder should have completed a minimum of 3 similar works in the last five years at INIS (preferable) or other Government organisations.
18. The intender may ask for an onsite demo.

C. Turnkey Solution for OPD Blood Sample Collection Places:

The Bidder must visit mentioned places & understand the nature of work before submission the proposal and submit the offer.

a. Turnkey Work-

Bidders are strongly advised to visit the site and carry out the assessment of works before bidding.

b. The designated area for sample collection room.

After a visit to the sample collection area, the bidder should prepare a complete layout and details of all work that will be carried out in the renovation of the blood collection area.

c. Work has to be done by the bidder including Electrical Isolators, MCBs, Electrical boards, AC, switches, Sockets, Glass fittings and any other thing which are required for smooth running of Equipment.

d. Bidder may quote the consumable cost & Sample collection Tubes separately.

Bidder should provide the followings.

| | |
|---|-------------|
| US Charge With Maintenance | 5 Years |
| Public Addressing System/Public Address System (QMS) along with software in | 3.00 Units |
| Blood Collection Centre/ OPD | 20.00 Units |
| Manual Barcode & Token Generator | 3.00 Units |
| Barcode Token Printer | 40.00 Units |
| Barcode & Token Scanner Hand Scanner | 16.00 Units |
| 50 inches Display Monitor | |

Dr. [Signature] / Dr. [Signature]
Associate Professor / Additional Professor

Dr. [Signature] / Dr. [Signature]
Associate Professor / Additional Professor

Dr. [Signature] / Dr. [Signature]
Associate Professor / Additional Professor

Dr. [Signature] / Dr. [Signature]
Associate Professor / Additional Professor

28. The bidder should have successfully completed a minimum of 3 similar works in the last five years at IHLs (preferable) or other Government organisations.
29. The intender may ask an onsite demo.
30. A Blood Collection Support System that promises Safety, Efficiency and Error free Specimen labelling of tubes in a Blood Collection Unit of a Hospital.
31. It can be installed anywhere/ Hospital OPD without worrying about the design or Layout of the Phlebotomy Room.
32. Number of Total Tube : Minimum 120 to maximum 140 tubes capacity.
33. Automatic tube selection as per test requisition of Each patient.
34. Automated Barcode Labelling: It can stick labels automatically at Correct position and the position can be easily changed, (if required) as per the tube size; to adopt to various kinds of Downstream analyzers.
35. System can dispense all the tubes and extra labels for the tests like Urine, Sputum or stool; as per patient test requisition, along with the Summary of the work-list (in the form of a patient kit).
Identifies & Prints all the patient related information like CR number, Name, Age, Sex, Analyzer type, Chemistry or Hematology, etc. It will be customizable as per the need. Demographic data, CR No, Requisition information, Department. Tests can be added. It can be customised as per user requirements. Also the printed barcodes to be interfaced with installed analytical instruments.
36. Automatic Patient ID Verification.
37. Automatic Tube preparation: Uses one tray for each Patient.
38. Each equipment unit will be supplied with 20 trays, totalling 60 trays for all three units.

1. The Token Calling System (TCS) should be designed to manage patient flow in the Blood Collection Centre/OPD efficiently, ensuring orderly and timely service.
2. Applicable to all patients visiting the Blood Collection Centre/OPD.
3. The bidder must supply 20 units of manual Barcode Generators and 40 units of Barcode scanners for every Registration Counter and destination counter.
4. Bidder must supply one server. A server will be provided for transition of data for QMS purpose. It will be either windows or Linux based depending on requirement from HIMS. Specs similar or higher- server-65W/3.1GHZ/8MB/ 16 gb RAM / 2 tb HARD DRIVE /3 5" SATA,3-Bay ready/On Board SATA SW RAID/Intel AMT 12.0/1 Ethernet Ports, ST50 V2 Intrusion Switch Kit, ATX-300W PSU, Monitor, Keyboard. Backup facility to be given for auto backup and data transfer.
5. The bidder must supply 16 (Sixteen) 50-inch Display units in patient waiting area in the OPD/sample collection area. 2-3 Display will be installed at Billing counters for OPD. Rest 12-13 display will be installed at various blocks of OPD as per requirement.
6. Under QMS - Doctor software desk will press Enter/next then patients call will be given by name and token number, room number and this information will be displayed on Display systems in front of that OPD with queue number. It will be customisable that which information will be displayed.
7. 5- Small Display will be installed at each phlebotomy counters, which will call patient counter number and called token number.

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ADDL. PRCP. ...
RICH. C. ...

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डॉ. चण्डीत लखनवाड़ी / Dr. Chandhit Lakhnawari
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REPUBLIC OF KOREA

PROPRIETARY CERTIFICATE

Date: 17th April, 2025

To whom it may concern,

We, M/s Energium Co. Ltd. Located at B114,2, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea ; hereby declare that we are the **ONLY** manufacturer in the world for the High Speed Automated Phlebotomy Tube Labeller (APTL) Model HENm and its accessories & consumables.

The salient features of the above products are:

The **ONLY** APTL in the world, that can prepare (Tube selection, Label Printing & affixing on the Tube, creating extra-labels as required, preparing the complete Patient kit) Tubes for In Door patients; at a very high speed of 1440 tubes per Hour.

We hereby confirm that our distributor for India, Kopran Laboratories Limited, with its Head Office located at Parijat House, 1076, Dr. E. Moses Road, Worli, Mumbai – 400018, India are authorized to quote, negotiate and conclude a deal, on our behalf for HEN Series, its accessories and all other related products.

It is further clarified that Kopran Laboratories Limited have trained Technical staff and they are equipped to extend full after Sales Service Support on the HEN Series to its customers.

Authorized Signatory



KI YOUNG LEE Director, Sales & Strategic Planning

For and on behalf of M/s. Energium Co. Ltd

Date: Apr.17, 2025