

BRIHANMUMBAI MUNICIPAL CORPORATION

TNMC & BYL Nair Ch. Hospital, Mumbai- 400008.

Expression Of Interest.

Subject- To invite Expression Of Interest from vendors to supply Fully Automated Hematology Analyzer (1 Nos.) for use in Department of Medicine, TNMC & BYL Nair Ch. Hospital through CSR fund received in PPF of BYL Nair Hospital from Mazgaon Dock Shipbuilders Limited (MDL).

TNMC & BYL Nair Ch. Hospital is a tertiary referral center with 1623 beds. Being a major hospital in South Mumbai, a lot of critically ill patients are admitted to / treated in the wards & OPD of this hospital. All of these patients need Hematology tests for diagnosis and management. On an average, our laboratory processes **50-55 CBC samples per day for a total of approximately 900 CBC samples per month.** For this, we propose to procure Fully Automated Hematology Analyzer machine in the Medicine Research Laboratory, Department of Medicine, TNMC & BYL Nair Ch. Hospital,

For procurement of Fully Automated Hematology Analyzer machine, it is proposed to invite "Expression of Interest" from potential vendors to supply the same for patients coming to EMS/MICU/Medical wards of this hospital.

To supply required Fully Automated Hematology Analyzer machine, vendors should obtain **Application Form** from **Dean Office on 25.02.2025 to 03.03.2025** and submit all required documents on or before **03.03.2025, up to 12:00 noon** in the drop box in Dean Office, College building, Ground floor of T.N.M.C. & B.Y.L. Nair Ch. Hospital. This will be a 2 stage EOI comprising of 2 packets; **Packet A** - relevant documents related to the technical specifications along with the duly filled Application form & **Packet B**- Commercial documents (quotation in the prescribed format). **Packet A will be opened on 04.03.2025 at 11:30 a.m. & Packet B will be opened on 05.03.2025 at 11:30 a.m.** in the Dean's Office, BYL Nair Ch. Hospital.

**SPECIFICATIONS FOR FULLY AUTOMATED HEMATOLOGY ANALYZER
MACHINE FOR DEPARTMENT OF MEDICINE, TNMC & BYL NAIR CH.
HOSPITAL, MUMBAI CENTRAL, MUMBAI.**

Specifications of Fully Automated Hematology Analyzer:-

1. The analyzer should be a 5/6 -part differential analyzer with throughput of at least 60 samples per hour, should have an Auto-Loader function & should offer automatic start-up, shut down & sample analysis.
2. The analyzer should have following modes- whole blood, pre-dilution mode, manual & capillary.
3. There must be minimum 28 reportable parameters- WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, RDW-SD, RDW-CV, PDW, MPV, P-LCR, PCT, NEUT#, LYMPH#, MONO#, EOS#, BASO#, NEUT%, LYMPH%, MONO%, EOS%, BASO%, IG#, IG%, MicroR, MacroR, etc.
4. Flagging of NRBC and iRBC (RBC with inclusions of parasitic origin/malaria origin), is standard in every measurement.
5. Required sample volume should not exceed 25 μ L in all modes.
6. Instrument should use flow cytometry / hydrodynamic sequential system for WBC differential counting; Impedance method with hydrodynamic focusing for RBC & PLT enumeration.
7. Instrument should use Cyanide-free reagent for Hemoglobin measurement.
8. Instrument should have QC data storage for more than 90 different lots with minimum 300 plots per lot.
9. Instrument should store patient results for more than 10,000 samples.
10. The measurement linearity limits should be considerably high:-
RBC- 8 to 15 x 10¹²/L
WBC- 300 to 900 x10⁹/L
PLT- upto 5000 x 10⁹/L
Hb- upto 300 g/L
11. Instrument should be CE/USFDA certified.

12. Installations at substantial locations in INDIA.
13. Manufacturers should also be manufacturing the reagents/kits needed for the machine which are approved from US FDA and CE (European), controls, calibrators with traceability certificate and external quality assurance scheme (EQAS).

General Conditions:-

1. All the above equipment shall be new and manufactured from virgin materials. All the requirements of this supply shall be necessary sourced from the original equipment manufacturer of the model quoted except UPS, PC / Printer which shall not be necessary sourced from the original equipment manufacturer of the model quoted but should be compatible with the quoted model. In case the machine is an imported one, no import substitution is permitted neither before the award nor after the award for any part or accessory. Third party inspection certificate should be applied from the port of origin of shipping of equipment (from the parent companies country of origin).
2. Equipment shall operate on 230V + 15% single phase, 50 Hz + 3% electric supply. The necessary protective relaying / circuitry shall be there with the machine. The mains supply voltage variation may be max.±10% and frequency variation maximum ±3 %.
3. The quoted model shall be CE mark from European Conformity (EC) notified bodies (under MDD) along with declaration of conformity issued from European address or valid US FDA approval for the offered model and accessories along with documentary evidence to that effect shall be uploaded.
 - a) Declaration of conformity by manufacturer or EU representative of manufacturer for the quoted model.
 - b) Documentary evidence regarding firm registered with EEA (European Economic Area) Competent authority is required.
Or European Representative registered with EEA (European Economic Area) Competent authority is required.
Or other documents like certificate from notified body along with declaration of conformity.

4. **Comprehensive Maintenance Contract [CMC]:**

The equipment shall be having warranty of 3 years & CMC of 5 years after 3rd year. The Warranty and CMC shall cover all the spare parts for total 8 years (Warranty 3 years and CMC 5 years). The manufacturer shall supply spares, consumables along with technical support for at least 2 years after the contract period of 8 years is over. Commercial bid will be inclusive of Warranty and CMC (Warranty 3 years and CMC 5 years). Cost of the Comprehensive Maintenance Contract (CMC) for each year will be fixed to 5% of the ordered value of the equipment per year, this rate will be fixed for 5 years.. GST will be paid at actual for CMC as the case maybe. System should have compulsory 3 years warranty + 5 years CMC including all regular consumables & accessories like electrodes, lamps, tubing including UPS with batteries and printer and/or related consumables during the complete 8 year period. During this period, all costs of preventive maintenance like lamps, reaction cells, tubing's, UPS with batteries shall be borne by manufacturers. Hospital will not pay for any preventive maintenance required during entire period of warranty. The Comprehensive Maintenance Contract shall include the equipment and all accessories supplied by the vendor as a part of this EOI. It is the responsibility of the vendor to see that the equipment and all accessories are maintained in proper functioning condition by providing spare parts where required, whether such spare parts/accessories are manufactured by the vendor or not.

5. After warranty of 3 years, participating companies should quote CMC charges including complete maintenance, rates for consumables & accessories like lamp, UPS with batteries from 4th to 8th years as stated in warranty clauses. Hospital will not pay any maintenance requirement during the entire period of machine. The companies must provide the price list of reagents / kits to enable the hospital to procure the same as per requirement and prices of the same will remain fixed for a period of 8 years. Hospital will not allow any price increase during same period. Pack size of reagents should be small and should not be more than 800 tests so to prevent on board expiry of reagents.

6. **Consumables /Accessories / Instruments:**

The vendor shall have to submit the rate for all the consumables required per set.

The vendor shall have to quote only one rate which will remain constant throughout the Warranty for three years and CMC (as applicable) contract period for five years i.e. for total eight years. The rate quoted for consumables shall be fixed for 08 years and cost of one consumable each shall be considered for evaluation and BMC is not binding to accept the rates quoted for consumables. Apart from mentioned consumables, cost of no other consumables will be paid by BMC and same shall be covered under warranty and CMC.

Cost for Consumables/Accessories/Spares during 3 years warranty and 5 years

CMC-

Rates for consumables/spares/accessories shall be quoted excluding taxes if any(GST only). GST will be paid at actual as per prevailing rates.

7. **The reagents cost per year should not exceed 20% of initial machine cost** for the projected workload which is around **10,000-10,500 samples per year**.

8. **Delivery, Installation & Commissioning:-**

The vendor should give free delivery at Medicine Research Laboratory (Room no. 107), Dept. of Medicine, BYL Nair Ch.Hospital, within **10 working days** from the date of placing of purchase order.

The equipment should be provided with one hard copy in original of the detailed service manual and operation manual. Further, a soft copy is also required.

9. The equipment must be tropicalized as below:

Operating room temperature: 40° C

Storage room temperature: 60° C

Relative Humidity: up to 90% Non-condensing.

10. Prospective vendors should have a full-fledged and well-established service centre in Mumbai with engineers qualified in servicing of entire FULLY AUTOMATED HEMATOLOGY ANALYZER MACHINE.

11. Demonstration is compulsory for lowest bidder and he should arrange for the demonstration of the equipment quoted in the tender within 1-2 days from the date of intimation of the request for demonstration in Medicine Research Laboratory.

12. **Training :-**

The successful vendor shall have to give sufficient operational training at his cost to the user staff of the laboratory and service training to the Engineers of A.E.(M&E) / Medico Electronics Cell.. Also it shall be provided as and when required if asked by user department.

13. **Unconditional offer:-**

Vendors shall quote a firm & unconditional offer. **Conditional offers shall not be considered and shall be treated as non-responsive.** Bonus/complimentary / discount offer given with condition will also be rejected. Bonus/complimentary / discount offer given without any condition will not be considered for evaluation of comparative assessment. The net price quoted will only be considered for determining the lowest bidder irrespective of unconditional Bonus/complimentary/discount offer.

14. **Variation in rate:-**

Vendors are requested to fill in the tender carefully after noting the items and its specifications. No variation in rates etc. shall be allowed on any grounds such as clerical mistake, misunderstanding etc. after the tender has been submitted.

The Installation Report & necessary documents will be submitted to the Donor. The donor will deposit the Payment in Nair Poor Patient fund (PPF). Vendor will be by Nair PPF after receiving payment from donor. For doubts or any query, you can contact at the Dean's office /Department of Medicine - Tel. No. 02223027125/02223027101/7122.

**Sd/-
Professor & Head
Medicine Department**

**Sd/-
Head
MSW Department**

**Sd/-
Administrative Officer
TNMC & BYL Nair Ch. Hospital**

**Sd/-
Dean
TNMC & BYL Nair Ch. Hospital**