Terms of Reference / Technical Specification Clauses

Item Name: Butane-1,4-diol Cooling Plates (Cartridges) for WB Cooling

Procure reusable cooling cartridges containing 1,4-butanediol (phase-change material ~20 °C) to rapidly cool freshly collected whole blood (WB) from ~37 °C to 22 ± 2 °C within ≤ 2 hours, and maintain 20–24 °C until processing for platelet preparation.

I- Specifications:

- Performance:
 - Cool WB $(450 \pm 50 \text{ mL})$ to 22 ± 2 °C in ≤ 2 hours (full load).
 - o Temperature spread ≤2 °C between units; maintain 20-24 °C for ≥8 hours (vendor to state validated duration).
 - o Operate in ambient 15–35 °C.
- Preconditioning:
 - o Pre-cool at +2-8 °C until PCM solid; readiness indicator required.
- Design & Safety:
 - Leak-proof, corrosion-resistant, smooth/cleanable surfaces, resistant to disinfectants.
 - o Unique ID; SDS provided; sealed to prevent PCM exposure.
- Durability:
 - o State re-use cycle life and warranty (≥12 months).

II- Training:

Vendor-led hands-on training for lab personnel

III- Documents to be delivered:

- Certificates (CE/ISO 13485 or 9001)
- Warranty,
- User and maintenance Manual
- performance/validation data
- Completed LRC BTS Supplier Qualification Form: The official form must be fully completed, signed, and stamped.

IV- Accessories required:

Any additional required accessory to be suggested and provided by the company.

V - Transport, installation, and setup

Assured by the company.