



ಮಕ್ಕಳ ಬಿಭಾಗ
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DATE:-17-6-2026

From,
HOD,
Department Pediatrics,
KMCRI, Hubli

To,
The Director,
KMCRI, Hubli


Subject: Submission of Technical Specifications for Procurement of Hospital Grade Multi-User Electric Breast Pumps for Jeevamruta Human Milk Bank

Respected Sir,

In view of the requirements of the Human Milk Bank, it is proposed to procure 2 Hospital Grade Multi-User Electric Breast Pumps with the following minimum technical specifications:

Technical Specifications

1. The breast pump shall be a hospital-grade, multi-user electric breast pump suitable for continuous and frequent use in hospitals and human milk banks.
2. The system shall be designed to support initiation, establishment and maintenance of breast milk production in mothers of preterm and term infants.
3. The pump shall have evidence-based programmed pumping patterns that mimic the natural sucking behavior of an infant, including:
 - Initiation mode/program for mothers in the early postpartum period.
 - Maintenance mode/program for established lactation.
4. The pump shall incorporate two-phase expression technology consisting of:
 - Initial stimulation phase with rapid cycles.
 - Expression phase with slower, efficient milk removal.
5. The unit shall support both:
 - Double pumping (simultaneous expression from both breasts).
 - Single pumping.

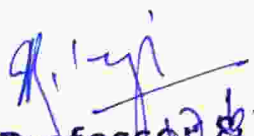

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6. The pump shall have independent pumping channels/membrane systems permitting easy conversion between single and double pumping modes.
7. The pump shall be equipped with overflow protection and a closed barrier system to prevent milk entry into tubing and motor assembly, thereby minimizing contamination risk and allowing safe multi-user operation.
8. Vacuum strength shall be adjustable with user-controlled suction settings to ensure maternal comfort and efficient milk expression.
9. The unit shall have a dedicated let-down/stimulation button enabling the user to return to stimulation mode whenever required.
10. The breast pump shall operate quietly and be suitable for use in NICUs, postnatal wards and milk bank environments.
11. The system shall be suitable for long-term and frequent pumping requirements and designed for continuous hospital operation.
12. The pump shall be compatible with multiple breast shield sizes to accommodate different mothers comfortably.
13. The unit shall have an easy-to-clean external surface and components suitable for hospital infection control practices.
14. Electrical requirements:
 - 220-240 V AC, 50 Hz.
 - Suitable for operation on Indian power supply.
15. The pump shall be supplied with:
 - Double pumping kit.
 - Collection bottles/containers.
 - Tubing sets.
 - Membrane/barrier assemblies.
 - Breast shields of appropriate sizes.
 - Power cord and accessories required for immediate operation.
16. The manufacturer/supplier shall provide:
 - Installation and commissioning.
 - User training for nursing staff and lactation counsellors.
 - Warranty of minimum 5 years.
 - Availability of consumables and spare parts for at least 5 years after installation.
17. The equipment should comply with applicable international safety and medical device standards (CE/FDA/Equivalent certification).

The above specifications are essential to ensure efficient milk expression, maintenance of lactation, safety, durability and optimal utilization in the Human Milk Bank and Neonatal ICU.

Kindly consider the above specifications while processing the procurement.

Yours faithfully,


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