

ANNEXURE 'A'.

Specifications – Finger prick, Point of care testing for Hemoglobin

Sl. No.	Name of Specification	Specifications
1	System	Hemoglobinometer
2	Method	Absorbance measurement of whole blood at Hb/HbO ₂ Isobestic Point based on microcuvette technology or any better technology
3	Microcuvette	Should be made of polystyrene plastic and contain no active ingredient
4	Measuring Range	0-25.6g/dL
5	Measurement	Dual wavelengths of 500 – 520nm & 850 – 900nm for turbidity compensation.
6	Analyzer	Analyzer should be USFDA Certified / CE mark
7	Measuring Time	3seconds – 5 seconds
8	Correlation of Analyzer	Correlation of Analyzer with ICSH reference method with r~0.995
9	Sample Material	Capillary whole blood / Venous /arterial
10	Sample volume	3 -10 µL
11	Calibration	The system should be factory calibrated and need no further calibration
12	Quality Control	Built – in self test liquid control should be available
13	Interface	RS232 (Printer, PC)
14	Working temperature	05 - 40°C
15	Storage Temperature	Cuvettes : 10-40°C, Analyzer: 0-50°C
16	Power	Battery operated
17	Power saver mode	When operating on battery power, the analyzer will automatically turn off after 5 minutes of no use.
18	Manufacture	Manufacture should have ISO 9001:2008 certification/TUV Certificate
19	Analyzer Complies	Analyzer complies with IVD Medical Device Directive 98/79EC

20 Technical clearance will be based as precision of the Hemoglobin meter at the Demo site.

21 Selection will be based on final technical evaluation.

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1. Micro Pipettes (Mechanical)

SL. No.	NAME OF SPECIFICATIONS
1	User friendly high performance air displacement pipettors with compression spring mechanism
2	Comfortable hand grip
3	Consistency in quality
4	Quick Click with digital display of volume setting
5	Separate tip ejector
6	Light weight ergonomic design
7	Autoclavable tip cone
8	Non Metallic internal part
9	Volume range from 0.5-10 μ l, 5-50 μ l, 5-50 μ l, 20-200 μ l, 100-1000 μ l,
10	Safe zone filter lock provider
11	Tip cone filter lock
12	Smooth, easy aspiration and dispensing
13	Calibration and maintenance should be done by firm for next 3 years by NABL authorized lab.
14	Micro pippets holders and tip holders to be supplied.

Capacity and reproducibility:-

Sl. No.		Accuracy	Reproducibility
I	0.5-10 ul	$\pm 1\%$	1% - 0.5%
li	5-50 ul	$\pm 1\%$	1% - 0.5%
lii	20-200 ul	$\pm 1\%$	1.5% - 1%
iv	100-1000 ul	$\pm 1\%$	0.5% - 0.4%

2. Multi Channel Pipette

- i) Should have 8 channels for dispensing
- ii) Comfortable and adjustable hand grip
- iii) Consistency in quality
- iv) Quick Click
- v) Separate tip ejector
- vi) Ergonomic design
- vii) Autoclave able tip cone
- viii) Non Metallic internal Part
- ix) Adjustable volume range from 20-300 μ l
- x) Should be adjustable with all types of tip
- xi) Micro pippets holders and tip holders to be supplied.

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Specifications for the Plasma Extractor (08 nos.)

Technical Specification:-

1. Material	-	Stainless steel
2. External size (W* D* H*)	-	165* 250* 250*mm
3. Pressure Plate	-	Acrylic
4. Control	-	Manual
5. Size (W x D x H)	-	17 x 25 x 24 M
6. Applicable Blood Bag	-	100ml, 200ml, 300ml, & 400ml,

Features:

1. Manual System
2. Easy to observe the separation of the plasma and Red Blood Cells.

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The Specification for Bench Top Centrifuge machine is as below:-

Max speed	4000r / min
Max RCF	2580 x g
Swing Rotor	18 x 5 ml / 24 x 5 ml
Type of tube	Glass tube and Vaccutainer
Control	Microprocessor control
Time setting Range	0-99 min
Motor	Brushless DC Motor
Power supply	AC 220V 50 Hz 2A

- Build - in timer
- Build in speedometer with speed regulator, speed indication
- Audio/Visual indicator alarm for completion of centrifugation cycle
- Door closure – lid locks systems
- Auto stop for speed variation
- Imbalance detector
- Cushions for test tubes
- Machine should be C.E / ISI mark
- One year warranty with 5 years free maintenance

Specification of Fruit Juice Drink

- 1. Minimum 200 ml pack total quantity required 50,000 Nos. (Supply in installments minimum 1500 per month/lot)**
- 2. Minimum 20% pulp**
- 3. It should having FSSAI Licensing**
- 4. Not in glass bottle**

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SPECIFICATIONS FOR SHARP CONTAINERS

1. Leak proof, tamper proof, puncture proof containers of virgin plastic quality.
2. Capacity 3 liters, 5 liters and 10 liters.
3. Non PVC container
4. Color Translucent
5. Cover of sharp container must have provisions for dropping/removing of blades, needles syringes with non removable needles etc.
6. **Multiple use** – Cover must be open able and having a sturdy lock system. Container must be complied with AN ISO 90001:2008 / CE.
7. A non washable and non-removable label with Bio-Hazard symbol in red color and word Bio-hazard should be prominently displayed.
8. A warning of filling level with a line also be marked on label. Label also carried a warning: **DO NOT TILT THE CONTAINER WHEN FULL.**



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DO NOT TILT THE CONTAINER WHEN FULL.