

## **Specification for Bench Top Di Electric Tube Sealer (single seal)**

(2 Nos.)

1. Should be heavy duty radio frequency sealer.
2. Should be capable of doing at least 500+ sealings in 8 hrs and should be capable of functioning for minimum 12 hrs nonstop.
3. Should be a compact single unit
4. Should have high frequency sealing with low RF emission
5. There should be automatic detection of the tube by pressing of a lever which activates sensor.
6. Should be able to detect wet tube, leakage and sealing defects. There should be an alarm in case seal is not safe and completed.
7. Should be able to withstand voltage fluctuation and there should be uniform sealing irrespective of power supply variations.
8. Tube thickness of up to 6 mm of diameter and wall thickness up to 0.75 mm should be sensed and sealed automatically.
9. Indication of seal in progress should be there.
10. Sealing time should be less than 2 sec.
11. Separable rupture line to separate tube ends after sealing.
12. Should ensure safety against electrical shock hazards, fire hazards, and mechanical hazards.
13. There should be no hemolysis of blood in the tube segments
14. No warm-up time should be required.
15. It should be easy to clean.
16. Should have hand grip on top side of the equipment for easy lifting of the equipment.
17. Splashguard to protect user from any kind of blood splash during operation should be provided.
18. CE/FDA/ISO certification specific for the product should be submitted.
19. Weight of equipment should not exceed 6Kg
20. Original literature of equipment should be submitted.
21. A Suitable voltage stabilizer should be provide free of cost.
22. User's list should be provided with satisfactory report for the last three years from three Licensed Blood Banks with contact details.
23. The demonstration of performance of the equipment is must in AIIMS Blood Bank failing which the firm will not be considered for technical evaluation.
24. Up time & penalty for delays in repair & maintenance: the firm will ensure uptime of 345 days in a year during warranty period & CMC period.

Whenever there is breakdown the firm will carry out the repair within 48 hours of receipt of such information (either by telephone or by any other means)

If there is delay beyond 48 hours then the firm will be penalized at the rate of 1% of the cost of product per day.

This financial penalty can be waived off on recommendation of the user dept. if the reasons of delay are genuine the same are recorded & endorsed by the concerned dept.

If the down time is exceeded in a year from 20 days then the warranty shall stand extended by double the no. of days machine was out of order

25. Information regarding merger/acquisition/takeover or any change in the production should be submitted at the time of tender by the principal firm. In such case it should be specified who will provide the after sale service, CMC, supply of spare parts etc. failing which the firm shall not be considered for technical evaluation.
  
26. Warranty: 5 years warranty without any exclusion from the date of installation for equipment and stabilizer + 5 years comprehensive maintenance contract without any exclusion for both equipment and stabilizer. The cost of warranty and CMC will be included in total cost of the equipment for financial comparison
27. Electrical: The equipment should be able to run on the existing electrical provision