



Ref: NCB/F-200605/2020-221 (N)

### Liquid nitrogen Dewar

1. System should have durable aluminum construction which is compatible for liquid Nitrogen storage
2. System should have capacity of 120 liters  $\pm$  5%
3. System should have Twin liquid fill/decant valves
4. System should have good Temperature Uniformity.
5. System should maintain temperature  $-184^{\circ}\text{C}$  even when less than 2 inches (5 cm) of liquid nitrogen remains in the vessel.
6. System should have neck diameter 8.5inches.
7. System should have liquid nitrogen evaporation rate less than 0.5% per day.
8. System should have static holding time of minimum 120 days
9. System should have supplied with minimum 4 stainless steel racks to accommodate cryo boxes which together should accommodate minimum 4000 of 1.5ml/2ml cryo vials.
10. System should have integral pressure build vaporizer with automatic pressure regulation
11. System should have equipped with a safety dispensing head incorporating fill, vent and dispense valves, safety reliefs valves and pressure gauges
12. System should be equipped with ultra-sonic level monitor to provide continues LED read out of LN2 level, which should activate whenever visual and audible alarm level falls below the set point.
13. System should be equipped with heavy duty castor wheel for easy movement
14. System should have lockable lid.
15. System should have 1/2"BSPPF outlet.
16. System should have Color-coded, labelled valves for easy identification.
17. System should have 5-year vacuum warranty.
18. System should have 3-year Warranty.
19. System should be supplied with Cryo gloves and accessories.
20. The system should be supplied with all the accessories along with the flexible hose pipes with appropriate connectors.
21. required to function.
22. Compliance to each of the above points should be separately indicated and evidence of presence for each of them (Product brochures should be highlighted wherever required).
23. The system should be supplied with 3-year warranty as a part of the offer
24. System should have complied with Pressure Equipment Directive or equivalent.
25. The System should be CE/ISO Approved
26. The service provider should have the base in Bangalore. Office address and service Engineer contact details should be enclosed with the quotation
27. The past performance/service support in NCBS/instem/ccamp (Blisc) should be satisfactory and the technical evaluation will be done accordingly.
28. The product should be as per CE/IEC guideline and certificate from authorized body should be submitted. No self-declaration will be accepted.