



## ICMR-NATIONAL INSTITUTE FOR RESEARCH IN REPRODUCTIVE HEALTH

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Date: October 7, 2020

Subject: **Tender for Barcode Reader with Printer Kit and Software**

Due Date: **20<sup>th</sup> October, 2020; 17.00 Hrs.**

### TECHNICAL SPECIFICATIONS:

- The system should include a barcode reader/scanner, barcode printer along with cryogenic labels required for printing the barcodes and the appropriate software.
- The barcode reader and scanner should have a warranty period of minimum 3 years

#### Barcode Reader/Scanner :

- It should support 1D and 2D barcodes with area imaging as scanning technology
- The read range should vary from 0-300mm
- Motion tolerance/scanning rate: 100-700 cm/s
- Connectivity: corded as well as bluetooth - wireless
- Host interface: USB, keyboard wedge
- Scanner should come with software
- Durability: 25-50 drops (6ft drop)
- Operating temperature: -30° C to 50° C (if possible -80° C to 30° C)

#### Barcode Printer:

- Print method: Direct thermal or thermal-thermal transfer
- Print resolution: 200-600dpi
- Print speed: 2-6 inches per sec
- Print mode: continuous, tear off, cutter
- Print area: minimum length: 20mm; maximum length: 100mm and minimum width: 10mm; 50-100mm
- The printer should be provided with sensor to sense gap, paper end, ribbon near end/end
- It should be compatible with label size of 30mm X 15mm or label for 2mL cryovial
- Interface: USB, Bluetooth or WLAN
- Printer should have enabled variable data entry and barcode serialization
- Database connectivity (Excel, CSV & others)
- RFID encoding enabled
- It should have basic template design (text, graphics)
- It should support 1D and 2D barcodes

**Labels:**

- The labels should be suitable for cryovials of 1.5 to 2mL for a storage in liquid nitrogen, laboratory freezers i.e. -80° C and -20° C and transportation on dry ice or ice.
- The labels should be waterproof and weather proof
- The labels should be able to adhere to wet surface, withstand extreme temperature and freeze thaw cycle
- The labels should be resistant to alcohol sprays, sanitizing wipes, abrasion and chemicals
- The labels should be compatible to thermal-thermal transfer, direct thermal transfer, laser, inkjet printing and writable
- The labels should be provided as resin/wax ribbons in a roll, resistant against smudging, abrasion and harsh chemicals
- The ribbons should be compatible with the printer provided as part of the kit

**Software**

- It should enable quick and user friendly design and printing of simple labels, RFID labels and barcodes
- It should permit the use of pre designed template or creation of text and basic graphic fields as well as variable 1-dimension (linear) and 2-dimension barcodes (Aztec, Data Matrix, QR, and others).
- It should automatically print from any Windows workstation or device connected to the same local area network (LAN)
- It should have features for customization
- It should easily connect to Microsoft® Excel, Microsoft Access and text files, or use open database connectivity (ODBC) to connect to other databases
- There should be access to free technical support and free version updates