

**DR.B.R.AMBEDKAR CENTER FOR BIOMEDICAL RESEARCH
UNIVERSITY OF DELHI, DELHI-110007**

Tender No. ACBR/16/Aug-1

Dated: 17-08-2016

Dr. B.R. Ambedkar Center for Biomedical Research, invites sealed tender from reputed and experienced manufactures or their authorized dealers for supply of items as given below:-

S.No.	Name of Equipments	Qty
1	Liquid Nitrogen Container (Cryocan) with box canister	01
2	Water bath sonicator/ Bioruptor for chromatin shearing	01
3	PCR Machine Specifications	01
4	General Specification for 20 KVA UPS	01

Financial & Technical bid should be submitted in separate Envelops.

A. Earnest money (EMD) Rs. 20,000/-for S.No. 2 & 4 and Rs. 5, 000/- for S.No. 1 & 3

B. 10% Performance Guarantee of the order value for S.No 2 & 4

Tender documents (non transferable) along with detailed Specification, Terms & Conditions may be purchased by the bidder on submission of a written application to the Section Officer, ACBR upon payment of Non . refundable fee of Rs.500/- in the form of Bank Draft in favour of Director, ACBR Payable at Delhi, between 10.00 am to 4.00 pm on all working days either in person or by post. The postal charge of Rs.50/- will be extra, if required, to be sent by post .Center will not be responsible for any postal delay. **The Center reserves the right to accept or reject any Bid without assigning any reason.**

- a. Date of Commencement of sale of Tender Document: 18th Thursday, August 2016 (10.30 am)
- b. Last date of sale of Tender Document : 8th Thursday, September 2016 (3:00 pm)
- c. Last date of Submission of Tender Document : 9th Friday, September 2016(11:00 am)
- d. Date and Time of Tender Opening : 9th Friday, September 2016 (4:00 pm)

For Specification of each item, please visit University/ ACBR Website www.du.ac.in/ / www.acbrdu.edu

Director

I. Liquid Nitrogen Container (Cryocan) with box canister. (One)

Description

- a) Liquid Nitrogen Container with racks having capacities of 110-140 liters.
- b) Roller Base5
- c) 5ö × 5ö × 2ö plastic Cryo Box with divider (set 40 boxes) for storing
- d) Bat- 1B Battery Operated Low Level Alarm
- e) Static hold of liquid Nz should be more than 100 days.

Optional Accessories

- a) 7.9L capacity small transfer cryo cylinder
- b) Storage Can for Cryo Tube vials Aluminum, one set
- c) Liquid level measuring scale- 1 nos
- d) Imported Cryo Gloves ó Mid Arm

Warranty – 3 Years

II. Water bath sonicator/ Bioruptor for chromatin shearing – One

- a) Power supply (230 V)
- b) Water bath volume 700-800ml
- c) Timer digital
- d) Attachment unit for 1.5ml
for 15 ml
- e) Probes ó for 1.5 ml (1 each)
for 15 ml (1 each)
- f) Number of sample to be processed simultaneously = atleast 6 each
- g) Sonication tubes 1.5 ml ó 100 pc
- h) Sonication tubes 15 ml ó 100 pc

Optional Accessories

- a) One Day ChIP kit X 60 reaction or more
- b) Complete MeDIP kit 10 RXNS or more
- c) LowCell# CHIP kit protein AX16 or more
- d) DiaMag02 ó magnetic rack

EMD ó As per rules

Warranty ó 3 Years

III. PCR Machine Specifications (One)

- Flexible block configuration ó should accept four types of thermal blocks for optimization and throughput i.e 32 ×3 well, 96 well, dual 96 well, 2 ×flat block for Digital PCR or any other format
- Block Format : Provision for three independent control, Interchangeable blocks
- Reaction Volume Range : 10-80 µl
- Reaction Speed: Fast or Standard
- Temperature Accuracy: ± 0.25 °C (35°C to 99.9 °C)
- Program Features : Auto re-start (after power outages), Program overwrite protection
- Temperature Range: 0 to 100.0 °C
- Temperature Uniformity: < 0.5 °C
- Block Ramp Rat : 6.0 °C or better
- Display Interface: Touchscreen TFT LCD
- Instrument Memory : USB and On- board
- The machine should be duly licensed/ authorized for PCR process and the vendor should produce the certificate for the same.
- Wi-Fi- enabled and remote connected.

Optional Accessories

- a) Two blocks of 32 well (0.2ml each)
- b) Taq polymerase 10vials
- c) dNTPs(100mm) 5vials
- d) Wi-Fi enabled & remote connected
- e) PCR tubes - 5boxes
- f) Filter Guarded tips of 0 - 20µl ----10pcks

20 - 200µl ----10pcks

Warranty: 3 Years

IV. General Specification for 20 KVA UPS

This specification describes **One 20 KVA three phase input & single phase output and optional One 20 KVA Three-phase input and Three phase output**, on-line, double conversion, continuous operation, solid-state, DSP controlled, Uninterruptible Power Supply (UPS) along with external isolation transformer & battery bank for minimum one hour back up. The UPS is required for Biomedical Sophisticated Instrumentation Facility.

The following documents must be submitted along with the offer.

- a) Manufacturers Authorization letter to submit offer mentioning this tender.
- b) Reference list where similar UPS systems have been supplied in India.
- c) Product catalogue sheets or equipment brochures.
- d) Circuit diagram showing the UPS units, load sharing mode along with the input and output panel requirements.

1. The UPS shall operate as an on-line system in the following modes:

- a) Normal, b) Battery, c) Recharge, d) Bypass:

2. QUALIFICATIONS

- a) **Manufacturer experience:** The manufacturer shall have a minimum 8-10 years of experience in the design, manufacture and testing of UPS systems.
- b) **Service Centre:** Should have a fully functional service centre with spares stock for attending the breakdown calls. Details of the service centre must be provided.
- c) **ISO Certification:** The manufacturer and bidder shall be ISO 9001 and ISO 14001 certified.
- d) Bidder should provide **user's list** with full contact details and phone numbers of the model quoted in the tender.

3. WARRANTY

- a) **UPS Module:** The UPS manufacturer shall warrant the UPS module against poor workmanship and materials for 2 years from the date of installation. The standard warranty shall include coverage of all internal parts and the supporting equipment. An additional 2 years warranty/AMC is also required to be quoted.
- b) **External Batteries:** SMF type; For batteries connected to the UPS, the warranty should be at least ≥ 02 Years from the date of supply, installation and acceptance.

4. Preventive Maintenance of SMART UPS (PM)

- a) Preventive Maintenance of complete setup of UPS system for a period of two years to be undertaken.
- b) Minimum 04 Numbers of Preventive maintenance shall be carried out in a year.
- c) Breakdown calls to be attended within 12 hours from the time of call.

5. STANDARDS

- a) Safety : EN 50091-1 or equivalent
- b) Emission & Immunity : EN 50091-2 & CE – Mark. 50 Hz Models or equivalent

6. Environmental Requirements

- a) Storage Ambient Temperature : 0°C to 50°C
- b) Operating Ambient Temperature : 0°C to 40°C
- c) Relative Humidity : 0 to 95% non-condensing.

7. SYSTEM RATINGS AND OPERATING CHARACTERISTICS

- a) The rating of UPS should be 20 KVA.
- b) UPS should be online-Double Conversion with Digital Signal Processor control.
- c) Should have IGBT based PFC Rectifier and IGBT based Inverter
- d) SMF Batteries should be sized for back-up of one hour at full load
- e) Battery manufacturer's catalogue and stacking details to be provided.
- f) Battery banks and their mounting racks should be separate for each UPS.
- g) Should have appropriate bypass.

8. SYSTEM INPUT

- a) Input Voltage Rating : 400-415 V for 3 phase Input voltage variation (\pm) 10 - 30%
- b) Input Voltage Range : In above range UPS should not switch to Battery backup mode.
- c) Input frequency Range: 40 - 60 Hz. In this range UPS should not switch to Battery backup mode.
- d) Input power factor : > 0.98 at 100% load
- e) No. of Battery selected option: as per load / model quoted

9. SYSTEM OUTPUT

- a) Output Voltage Rating: : 220 - 230 V for 1 phase & 400-415 V for 3phase
- b) Output voltage regulation : +/- 1 % or better
- c) Output Frequency Regulation: : 50 Hz +/- 0.1 Hz or better, unsynchronized
- d) Synchronised Freq. : \pm 1 Hz, \pm 2Hz, \pm 3Hz or better
- e) Max. Voltage transient recovery time: 10 milliseconds to nominal
- f) d) Output Voltage THD : <2% for linear load & <5% Nonlinear Load
- g) e) Overload capability : 125-150% for 60 seconds in normal operation
- h) f) Acoustical noise : dB(A) of noise, typically, measured at 1 meter from the operator surface should not be more than less than 65 dB(A)

10. Battery bank:

- a) UPS shall be supplied with 12 volts SMF VRLA batteries as per JISC:8702 only.

- b) All ratings of batteries shall be type tested from NABL/ILAC approved labs for all tests. In cases where interim test report covering all other tests except endurance test is available, same shall also be acceptable, provided endurance testing for the same batch of battery is under progress in a NABL/ILAC approved lab. Tenders having valid endurance test report for any one rating of SMF VRLA battery shall be deemed to be having valid endurance tests report for all ratings of SMF VRLA battery, provided that each rating is of identical design like same size & weight of plate and volume of cell per AH rating.
- c) Tenderers shall declare battery AH capacity, battery voltage, number of batteries of each rating, make and model of batteries offered with each item of UPS against questionnaire of technical particulars. This shall be made part of resultant R/C.
- d) The UPS shall be complete with Trolley for battery bank, battery, Cables and connectors etc. and the firms shall also connect the batteries with UPS and do commissioning of the same. Indenters and consignees are required to ensure the availability of installation site with dedicated input and output to enable the supplier of UPS to install and commission the same.
- e) Minimum VAH rating of battery bank for different duration of back up time shall be as detailed below:

UPS rating	Min.VAH
in KVA	60 minute
	back up
20 KVA	32000

Tender Term Conditions:-

1. The vendor should be the **Original manufacture, authorized distributor or Dealer.**
2. The Vendor should have proven ability of Supply of Science Equipments in reputed organizations including Government Department. Copies of purchase order should be include as a proof
3. The Vendor must submit Earnest money deposit (**EMD**) **Rs. 20,000/- for S.N0-2 & 4 and Rs. 5,000/- for S.N0- 1 & 3** item in form of D.D. drawn in favour of the Director, Dr. B.R. Ambedkar Center for Biomedical Research University of Delhi and for EMD **is required and fill the form . (Annexure-II)**
4. The firm must submit an undertaking (**Annexure-I**) on its letter head that they have not been **blacklisted** by any state Government or Central Government or PSU Department.
5. The quoted price should be CIP/CIF/INR inclusive of all taxes and other charges clearly.
6. Financial bid and Technical bid should be submitted in a separate Envelop.
7. The bidder should be registered with revenue authorities (**copy of PAN card, Service Tax Registration, Vat registration etc , should be enclosed**)
8. Original brochures and specification sheets must be enclosed along with supporting data.
9. **Guarantee or Warranty conditions** must be clearly specified.
10. Validity of Tender must be at least **120 days** from the date of opening Tender.
11. **The center reserves the right to accept or reject any bid without assigning any reason.**
12. **Our Tender No & Date and name of the item/ equipment should invariably be marked on the top of each envelop containing the Technical/ Financial bids, as well as on the outer envelope.**
13. The T/Bid prepared by the Tender/ bidder, as well as all correspondence and documents relating to the T/bid, shall be written in English Language. Supporting documents and printed literature shall also furnished in English.
14. Containing price with detailed break up as per format enclosed, both in figure and in words.
15. The documentary evidence of the bidder's qualifications to perform the contract if its bid is accepted, shall be established to the purchaser's satisfaction.
16. A list giving full particulars, including available source of all spare parts, special tools etc, necessary for the proper and continuing function of the goods . Following commencement of the goods use by the purchaser.

17. A confirmation that if the T/bidder offers system and /or other software systems offered by the bidder and the t/ bidder is willing to accept responsibility for its successful operation.
18. To sign the contract.
19. Firm must provide a user List with contact details (Name, address, email, & phone Number)

Annexure-I

Certificate from the bidder on their letterhead stating that the Company has not been blacklisted by any Government Organization, Non-Government or Public Sector.

To,

The Director

Dr. B.R.Ambedkar Center for Biomedical Research

University of Delhi

Delhi-110007

Subject:-----

Dear Sir,

This is certified that M/s----- has not been blacklisted and no criminal case is pending in any Government Organization, Non-Government or public Sector organization before submission of the bid document.

Yours faithfully

Signature

(Name & Designation)-----

(Company Seal)

Date

Annexure II

The Director

Dr. B.R. Ambedkar Center for Biomedical research

University of Delhi

Delhi-11007

Dear Sir,

Sub:- Your tender ref No-----

With reference to the above tender, having examined and understood the instructions, terms and conditions forming part of the tender, we hereby enclose our offer to supply the following items as per details in your above referred Tender.

Basic item No	Item Description	Make & Model No

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred letter and enclosures. We enclose EMD/ Bank Guarantee for-----
-----favoring Director, Dr. B.R. Ambedkar Center University of Delhi issued by-----
-----Bank-----Branch. DDNo----- Dated:----- and payable at
Delhi, towards Earnest Money Deposit.

Yours faithfully,

Authorised Signatories

(Name & Designation, Seal of the firm)

Date: