

No. CSB/GRC/SE/2014/Stores/

Date: 17.11.2016

To:

Sirs,

Sub:- Inviting competitive rate quotations for supply of 1 No.
**Programmable Controlled Rate Cryo Freezer
(Cryoplanner)** to CSGRC, CSB, Hosur - reg.

This Centre is interested in purchase of 1 no. **Programmable Controlled Rate Cryo Freezer (Cryoplanner)** as per the detailed specification enclosed. You are requested to quote your rate duly indicating the discount to be allowed on quoted value and tax/transportation charges if any. You may also enclose Catalogue, users list and performance report from the users, Warranty, Authorization and validity certificate from the manufacturer.

Two separate quotations i.e.1) Financial Bid & 2) Technical Bid should be sent to the undersigned in a sealed envelope superscribing as "Quotation for supply of **Programmable Controlled Rate Cryo Freezer (Cryoplanner)**" so as to reach this office on or before 07.12.2016 at 3.30 p.m. The quotations received after the due date and time of receipt will be rejected. All bids must be accompanied by EMD **(to be sent along with Financial Bid cover only & DD No. and date should be indicated in Technical Bid)**.

The last date and time for submission of bid is 07.12.2016 at 3.00 P.M. Only technical bids will be opened on 07.12.2016 at 3.30 p.m. and financial bid will be opened after 3 days.

The Terms and Conditions are as under:-

- (1) **EMD:** 2% on the quoted rate in the form of Demand Draft favouring "The Director, Central Sericultural Germplasm Resources Centre", payable at Hosur. EMD will be refunded only after finalization of the bids without interest.

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- (2) **Validity** : Rate quoted should be valid for 90 days.
- (3) **Delivery & Installation** : Within 15 days from the date of receipt of the Purchase order at CSGRC, Hosur.
- (4) **Payment schedule** : By Demand Draft or cheque after satisfactory installation & working of the equipment in good condition and as per specification.
- (5) Taxes/VAT/Other statutory duties should be indicated separately. **Please note that no form "C" or "D" will be issued by this Centre.**
- (6) Liquidated damages for delay at 0.5% will be deducted from the bill per week for not undertaking the ordered installation work, within the stipulated time.
- (7) Submission of Income tax clearance as issued by Income Tax Department & sales Tax clearance certificate as issued by State / Central Sales tax Department.
- (8) The Director, CSGRC, Hosur has right to accept or reject quotations either in part or full without assigning any reasons.

Encl: Specification

Yours faithfully,

[Handwritten Signature]
18/11/16
f DIRECTOR
[Handwritten Initials]

Specification for the Programmable Controlled Rate Cryo Freezer (Cryoplanner) under the project AIE3555 "Cryopreservation of Tasar silkworm, *Antheraea mylitta* semen and its Artificial insemination"

- 1.7 Litre Chamber with lid to hold Straw & Ampoule Holders
- Facility to Freeze samples in either Straws or Ampoules/Vials.
- Horizontal and Vertical Mode of Freezing to be possible.
- Capacity to Freeze upto 60 of 0.25cc/0.5cc Straws or upto 45 of 2ml Ampoules.
- Freezing by controlled release of LN₂ from an unpressurised 35 Litre Dewar
- Should be able to connect to 35Litre LN₂ Dewar with self-pressurising pump to Freezing Chamber.
- Microprocessor Based Controller with Ten user-definable Programs in permanent memory.
- Continuous and precise monitoring of Sample & Chamber temperature via 4 -wire PRT.
- Temperature Range: + 30°C to -180°C.
- Cooling Rates: - 0.01°C / Min. to -50°C / Min.
- Heating Rates: 0.01°C / Min. to 10°C / Min.
- Manual Seeding to be possible in both vertical and horizontal positions on each sample without disturbing the thermal environment of other samples.
- Uncontrolled Plunge rate provision.
- Alphanumeric LCD Display with menu driven program.
- Simultaneous display of Chamber, Sample & Demand Temperature
- Built-in Thermal Printer with time and date stamping as well as complete method and freezing curves.
- Power Fail protection.
- Facility to user calibration of temperature to external standard.
- Facility to connect to a local PC.
- Optional Windows Based Software to be available.
- Safety solenoids and excess pressure release mechanism.

11/11/16
निदेशक / DIRECTOR
के.रे.ज.सं.के., के.रे.बो, होसूर
C.S.G.R.C., CSB, HOSUR