



## Uttarakhand Livestock Development Board

Pashudhan Bhawan, Ist Floor, Mothrowala Road,

P.O. Mothrowala, Dehradun-248001,

Telefax : 0135-2532619

Email: [ceo\\_uldb@rediffmail.com](mailto:ceo_uldb@rediffmail.com) Website: [www.uldb.org](http://www.uldb.org)

GSTIN: 05AABFU8674M1ZK

### E-PROCUREMENT NOTICE

**INVITATION FOR BID IN TWO BID SYSTEM (TECHNICAL BID AND FINANCIAL BID) FOR PROCUREMENT OF LABORATORY EQUIPMENTS, CONSUMABLES, MEDIA & CHEMICALS FOR BOVINE EMBRYO TRANSFER AND IN VITRO FERTILIZATION; GENERATOR AND ON LINE UPS FOR EMBRYO TRANSFER LABORATORY, ANIMAL BREEDING FARM, KALSI**

<b>Bid Reference No.</b>	:	<b>4857/ULDB/PROC./Vol.XV/2018-19</b>	<b>Dated: 08 March 2019</b>
<b>Price of bidding document (non refundable)</b>	:	Schedule No. One : ₹1180.00	Schedule No. Twelve: ₹590.00
		Schedule No. Two: ₹1180.00	Schedule No. Thirteen: ₹1180.00
		Schedule No. Three: ₹1180.00	Schedule No. Fourteen: ₹1180.00
		Schedule No. Four: ₹590.00	Schedule No. Fifteen: ₹590.00
		Schedule No. Five: ₹590.00	Schedule No. Sixteen: ₹590.00
		Schedule No. Six: ₹1180.00	Schedule No. Seventeen: ₹1180.00
		Schedule No. Seven: ₹1180.00	Schedule No. Eighteen: ₹1180.00
		Schedule No. Eight: ₹1180.00	Schedule No. Nineteen: ₹1180.00
		Schedule No. Nine: ₹1180.00	Schedule No. Twenty: ₹590.00
		Schedule No. Ten: ₹590.00	Schedule No. Twenty One: ₹1180.00
		Schedule No. Eleven: ₹1180.00	
<b>Date of Release of Invitation for Bids in <a href="https://uktenders.gov.in">https://uktenders.gov.in</a></b>	:	<b>11.03.2019</b>	
<b>Availability of Bid Document and Mode of Submission</b>	:	<p>The bid document is available online on <a href="https://uktenders.gov.in">https://uktenders.gov.in</a>. The bidder would be required to register in the web site which is free of cost. The bidders are required to have Digital Signature Certificate (DSC) for online submission of bids. The DSC will be obtained from any one of the authorized certifying authorities.</p> <p>Details of subsequent addendum/corrigendum/ cancellation etc. may be obtained from <a href="https://uktenders.gov.in">https://uktenders.gov.in</a></p> <p>The bidder are required to submit (a) Original Demand Draft towards the cost of bid document (b) Original Bid Security and (c) Original Declaration regarding correctness of information furnished with bid documents &amp; validity of bid till the prescribed validity period duly signed in ₹100.00 Non judicial Stamp Paper to the office of Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India on or before stipulated date and time either by post or by hand. Failing which bid shall be declared as non-responsive.</p>	
<b>Last date and time for Receipt of Bids in <a href="https://uktenders.gov.in">https://uktenders.gov.in</a></b>	:	<b>30.03.2019 up to 11.00 AM</b>	
<b>Time and date of Opening of Technical Bids</b>	:	<b>30.03.2019 at 11.30 AM</b>	
<b>Time and date of Opening of Financial Bids of Technically qualified bidders</b>	:	Will be intimated through <a href="https://uktenders.gov.in">https://uktenders.gov.in</a>	
<b>Place of Opening of Bids</b>	:	Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India	
<b>Address of Communication</b>	:	Same as above	

The cost of bid document to be submitted in the form of Demand Draft or Bankers Cheque of any nationalized/ Scheduled Bank. The Demand Draft or Bankers Cheque will be made in favor of "Uttarakhand Livestock Development Board" payable at "Dehradun, Uttarakhand".

**Chief Executive Officer,**  
Uttarakhand Livestock Development Board



## Uttarakhand Livestock Development Board

Pashudhan Bhawan, 1st Floor,

P.O. Mothrowala, Dehradun-248001, Uttarakhand, India

[TIN: 05001011250]

Telefax : 0135-2532619

Email: ceo\_uldb@rediffmail.com Website: www.uldb.org

### **SECTION 1 : INVITATION FOR BID**

1. The Uttarakhand Livestock Development Board is State Implementing Agency for implementation of National Programme for Bovine Breeding (NPBB) and Rashtriya Gokul Mission (RGM) in Uttarakhand State. Uttarakhand Livestock Development Board is inviting bids in two bidding system (Technical Bid and Financial Bid) through e-procurement portal <https://uktenders.gov.in> from the eligible bidders for Procurement of Laboratory Equipments, Microscope, Consumables, Media, Chemicals for Bovine Embryo Transfer and In Vitro Fertilization, Generator and On Line UPS.
2. The Chief Executive Officer, Uttarakhand Livestock Development Board is inviting from all eligible bidders for the supply of following goods:

Schedule No./ Part of Schedule	Brief Description of Item	Qty.
One Part A	Upright Microscope	01 No.
One Part B	Research Stereomicroscope	01 No.
Two Part A	Ultrasound Machine, Monitor, Probe and Ovum Pick up Assembly for Bovines	01 No.
Two Part B	Embryo Freezer	01 No.
Three	CO2 Incubator	01 No.
Four Part A	Microscope Heating Plate for SMZ 1000 Zoom Stereo microscope	01 No.
Four Part B	Microscope Heating Plate for Inverted research microscope TiE model Nikon Make	01 No.
Five	Heat/Warming Plate with integrated temperature control to be supplied with Warming Blocks	02 Set
Six Part A	Bead Bath with temperature control unit for holding of Embryo /Semen straws and various Tubes	01 No.
Six Part B	Temperature control ports for microscope plates (heating), Heating plates and Bead baths	01 No.
Seven	Micro Pipettes	
1	0.5 - 10µl Capacity Micro Pipettes	02 No.
2	20 - 200 µl Capacity Micro Pipettes	02 No.
3	100 - 1000 µl Capacity Micro Pipettes	02 No.
4	1000-5000 µl capacity Micro Pipettes	02 No.
5	Pipette Stand to hold 4 Pipette	02 No.
Eight Part A	IVF Work Station with Temperature Control Working Platform and 02 Zoom Stereo Microscopes	01 No.
Eight Part B	Headed trolley for Ovum Pick UP	01 No.
Eight Part C	Bio Safety Cabinet Class II Type B	01 No.
Nine	Air Purification System	01No.
Ten	Denudation Pipette for Bovine Oocytes	02 No.
Eleven	Ethylene Oxide Sterilizer with Sealing Machine, Packing Material & Cartridge	01 No.
Twelve Part A	Bench Top Centrifuge	01 No.
Twelve Part B	Bench Top Incubator	02 No.
Thirteen Part A	Double Distillation Assembly	01 No.
Thirteen Part B	Vertical Autoclave	01 No.
Thirteen Part C	Hot Air Oven	01 No.
Thirteen Part D	Fumigator	01 No.
Thirteen Part E	Vortex	01 No.
Thirteen Part F	Garment Storage Cabinet	01 No.
Fourteen Part A	Embryo cup Filter Warmer	01 No.
Fourteen Part B	Slide Warmer	01 No.
Fourteen Part C	Oocyte Embryo Shipping Incubator	01 No.
Fourteen Part D	Embryo 0.25 MI Straw Shipping Incubator	01 No.
Fifteen Part A	Accurate Temperature Measurement Probe	01 No.
Fifteen Part B	Volatile Organic Compounds Level Monitor	01 No.
Sixteen	Embryo/ Semen Storage Type Liquid Nitrogen Vessel	01 No.
Seventeen	Consumables Item for IVF Lab	Variable
Eighteen	Consumables Items for In-vivo Embryo Production	Variable

Nineteen	Media and Chemical for Bovine ET and IVF	Variable
Twenty	Disinfectants & Disposables	Variable
Twenty One Part A	20 KVA Silent Generator	01 No.
Twenty One Part B	On Line 3 KVA UPS With Battery	01 No.

**3. TECHNICAL BID: should contain scanned copy of following documents:**

- i. Proof of Cost of Bid Document (Original Cost of Bid Document for the amount as specified in bid document must reach to Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India on or before the date & time as stipulated in bid document). **Bidders are required to submit Price of bidding document in accordance to the Schedules for which the bid is quoted, failing which bid submitted will be treated as Non-responsive.**
- ii. Proof of Bid Security (Original Cost of Bid Security for the amount as specified in bid document must reach to Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India on or before the date & time as stipulated in bid document).
- iii. Proof of Declaration (Original Declaration regarding correctness of information furnished with bid documents & validity of bid till the prescribed validity period duly signed in ₹100.00 Non judicial Stamp Paper must reach to Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India on or before the date & time as stipulated in bid document).
- iv. Bidder's Profile along with proof of certification having details of registration; PAN No; GSTIN No. etc.
- v. Summary of Latest Audited Balance Sheet.
- vi. Documentary proof of BIS &/or ISO certification or any other relevant document
- vii. Technical Details of the items conforming to the bid along with relevant documents
- viii. Experience of the bidder conforming to the qualification criteria as specified in Section VI A of bid document & any other relevant documents establishing bidders eligibility & qualification

**4. FINANCIAL BID:**

**Financial Bid must be submitted online in <https://uktenders.gov.in>.**

**Financial Bid should contain: Bill of Quantity (BOQ) QUOTE IN: Bidders Name and Column No. 13, 16 and 17.**

**(BIDDERS ARE REQUIRED TO QUOTE UNIT RATE AT COLUMN NO. 13, 16 and 17)**

**BOQ WILL BE CONSIDERED ONLY IF SUBMITTED ONLINE AND IN THE FORMAT UPLOADED IN WEBSITE.  
BOQ SUBMITTED IN OTHER FORMATS/ HARD COPY WILL NOT BE CONSIDERED.**

5. Technical Bids will be opened in the presence of Bidders representatives who choose to attend on the specified date and time.
6. The Financial Bids of only Technically Qualified Bidders will be opened in the stipulated date & time. The list of Technically Qualified Bidders and date of opening of financial bids of technically qualified bidders will be intimated on <https://uktenders.gov.in>.
7. In the event of the date specified for bid receipt and opening being declared as a closed holiday for purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.

**Chief Executive Officer**  
Uttarakhand Livestock Development Board

**SECTION II: INSTRUCTIONS TO BIDDERS (ITB)****TABLE OF CLAUSES**

<b><u>Clause No.</u></b>	<b><u>Topic Number</u></b>	<b><u>Page No.</u></b>	<b><u>Clause No.</u></b>	<b><u>Topic Number</u></b>	<b><u>Page No.</u></b>
<b>A.</b>	<b>Introduction</b>		<b>D.</b>		
1	Source of Funds	5	17	Deadline for submission of Bids	8
2	Eligible Bidders	5	18	Late Bids	8
3	Eligible Goods and Services	5	19	Modification and withdrawal of Bids	8
4	Cost of Bidding	5	<b>E.</b>	<b>Opening and Evaluation of Bids</b>	
<b>B.</b>	<b>Bidding Documents</b>	5	20	Opening of bids by the purchaser	8
5	Contents of Bidding Documents	5	21	Clarification of Bids	8
6	Clarification of Bidding Documents	5	22	Evaluation and Comparison of Bids	8
7	Amendment of Bidding Documents	5	23	Domestic Preference	9
<b>C.</b>	<b>Preparation of Bids</b>		24	Contacting the Purchaser	9
8	Language of Bid	6	<b>F.</b>	<b>Award of Contract</b>	
9	Documents Comprising the Bid	6	25	Award Criteria	9
10	Declaration	6	26	Purchaser's Right to Vary Quantities at time of Awards	9
11	Bid Prices	6	27	Purchaser's Right to Accept any Bid and to reject any or all bids	9
12	Bid Currencies	6	28	Notification of Award	9
13	Bid Security	6	29	Signing of Contract	9
14	Period of Validity of Bids	7	30	Performance Security	9
15	Format and Signing of Bid	7	31	Corrupt and Fraudulent Practices	9
	<b>Submission of Bids</b>				
16	Sealing and Marking of Bids	8			

**INSTRUCTIONS TO BIDDERS (ITB)**

**A. INTRODUCTION**

**1. Source of Funds:**

1.1 The Uttarakhand Livestock Development Board (ULDB) is State Implementing Agency for implementation of Rashtriya Gokul Mission (RGM) in Uttarakhand State. The Uttarakhand Livestock Development Board is inviting bids in two parts from the eligible bidders for the procurement of items for implementation of MOET and IVF project sanctioned under Rashtriya Gokul Mission. The total estimated cost of the bid is approximately ₹198.00 Lakh for which this Invitation for Bids is issued.

**2. Eligible Bidders:**

2.1 The Invitation for Bids is open for all eligible bidders.

2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation for Bids.

2.3 Government-owned enterprises in the Purchaser's country may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Purchaser.

2.4 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices in accordance with ITB Clause 31.

**3. Eligible Goods and Services:**

3.1 All goods and related services be supplied under the Contract shall have their origin in eligible source countries.

3.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services may be distinct from the nationality of the Bidder.

**4. Cost of Bidding:**

4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and Chief Executive Officer, Uttarakhand Livestock Development Board, hereinafter referred to as "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. All the Demand Draft/ FDR/ Bank Guarantee/ Pay Order/ Bankers Cheque shall be in favor of/ pledged to "Uttarakhand Livestock Development Board" payable at "Dehradun, Uttarakhand, India"

**B. THE BIDDING DOCUMENTS**

**5. Content of Bidding Documents:**

5.1 The goods required, bidding procedures and contract terms as prescribed in the bidding documents. In addition to the Invitation of Bids, the bidding documents include:

- (a) Instructions to Bidders (ITB);
- (b) General Conditions of Contract (GCC);
- (c) Special Conditions of Contract (SCC);
- (d) Schedule of Requirements;
- (e) Technical Specifications;
- (f) Qualification Criteria
- (g) Declaration;
- (h) Bid Security Form;
- (i) Contract Form;
- (j) Performance Security Form;
- (k) Performance Statement Form;
- (l) Manufacturer's Authorization Form;
- (m) Equipment and Quality Control;
- (n) Checklist for Submission of Technical Bid

5.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid at the time of evaluation of technical bid.

**6. Clarification of Bidding Documents:**

6.1 A prospective Bidder requiring any clarification of the bidding document may contact in person or may make telephonic contact to the office of Chief Executive Officer, Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun at any working day before the dead line of the submission of bid document.

**7. Amendment of Bidding Documents:**

7.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

7.2 Details of subsequent addendum/corrigendum/ cancellation etc. may be obtained from <https://uktenders.gov.in>.

7.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

### C. PREPARATION OF BIDS

#### 8. Language of Bid:

8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser shall be written in English or Hindi language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in English or Hindi in which case, for purposes of interpretation of the Bid, the translation shall govern.

#### 9. Documents Comprising / Constituting the Bid:

9.1 The bid prepared by the Bidder shall comprise the following components:

A) **TECHNICAL BID:** shall comprise scanned copy of all documents, cost of bid document & bid security as specified in bid document.

B) **FINANCIAL BID:** shall comprise the following components:

(a) Bill of Quantity (BOQ) completed in accordance with ITB Clauses 11 and 12

#### 10. Declaration:

10.1 Declaration regarding correctness of information furnished with bid documents & validity of bid till the prescribed validity period duly signed in ₹100.00 Non judicial Stamp Paper.

#### 11. Bid Prices:

11.1 The Bidder shall indicate on the Price Schedule the unit prices of the goods it proposes to supply under the Contract.

11.2 Prices indicated on the Bill of Quantity (BOQ) shall be entered on FOR basis.

#### 11.3 Fixed Price:

Prices quoted by the Bidder shall be fixed during the Bidder's performance of Contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

#### 12. Bid Currencies:

12.1 Prices shall be quoted in Indian Rupees only.

12.2 Rates quoted shall be in figures only.

#### 13. Bid security:

13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its technical bid, a bid security in the amount as mentioned below:

Schedule No./ Part of Schedule	Brief Description of Item	*Bid Security (INR)
One Part A	Upright Microscope	60000.00
One Part B	Research Stereomicroscope	
Two Part A	Ultrasound Machine, Monitor, Probe and Ovum Pick up Assembly for Bovines	65000.00
Two Part B	Embryo Freezer	
Three	CO2 Incubator	25000.00
Four Part A	Microscope Heating Plate for SMZ 1000 Zoom Stereo microscope	12000.00
Four Part B	Microscope Heating Plate for Inverted research microscope TiE model Nikon Make	
Five	Heat/Warming Plate with integrated temperature control to be supplied with Warming Blocks	12000.00
Six Part A	Bead Bath with temperature control unit for holding of Embryo /Semen straws and various Tubes	14000.00
Six Part B	Temperature control ports for microscope plates (heating), Heating plates & Bead baths	
Seven	Micro Pipettes	14000.00
1	0.5 - 10µl Capacity Micro Pipettes with Stand	
2	20 - 200 µl Capacity Micro Pipettes with Stand	
3	100 - 1000 µl Capacity Micro Pipettes with Stand	
4	1000-5000 µl capacity Micro Pipettes with Stand	
5	Pipette Stand to hold 04 Pipettes	
Eight Part A	IVF Work Station with Temperature Control Working Platform and 02 Zoom Stereo Microscopes	75000.00
Eight Part B	Headed trolley for Ovum Pick UP	
Eight Part C	Bio Safety Cabinet Class II Type B	
Nine	Air Purification System	25000.00
Ten	Denudation Pipette for Bovine Oocytes	5000.00
Eleven	Ethylene Oxide sterilizer with Sealing Machine, Packing Material & Cartridge	25000.00
Twelve Part A	Bench Top Centrifuge	12000.00
Twelve Part B	Bench Top Incubator	
Thirteen Part A	Double Distillation Assembly	20000.00
Thirteen Part B	Vertical Autoclave	
Thirteen Part C	Hot Air Oven	
Thirteen Part D	Fumigator	
Thirteen Part E	Vortex	
Thirteen Part F	Garment Storage Cabinet	

Schedule No./ Part of Schedule	Brief Description of Item	*Bid Security (INR)
Fourteen Part A	Embryo cup filter warmer	25000.00
Fourteen Part B	Slide Warmer	
Fourteen Part C	Oocyte Embryo Shipping Incubator	
Fourteen Part D	Embryo 0.25 MI Straw Shipping Incubator	
Fifteen Part A	Accurate Temperature Measurement Probe	12000.00
Fifteen Part B	Volatile Organic Compounds Level Monitor	
Sixteen	Embryo/ Semen Storage Type Liquid Nitrogen Vessel	5000.00
Seventeen	Consumables Item for IVF Lab	25000.00
Eighteen	Consumables Items for In-vivo Embryo Production	20000.00
Nineteen	Media and Chemical for Bovine ET and IVF	15000.00
Twenty	Disinfectants & Disposables	10000.00
Twenty One Part A	20 KVA Silent Generator	20000.00
Twenty One Part B	3 KVA On Line UPS With Battery	

**\* Bidders are required to furnish the Bid Security in accordance to the above details failing which bid submitted will be treated as Non-responsive.**

- 13.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to ITB Clause 13.7.
- 13.3 The bid security shall be denominated in Indian Rupees and shall:
- at the bidder's option, be in the form of either a demand draft or a bank guarantee or FDR or Bankers Cheque from a nationalized/Scheduled bank located in India;
  - be substantially in accordance with one of the form of bid security included in Section VIII or other form approved by the Purchaser prior to bid submission;
  - be payable promptly upon written demand by the purchaser in case any of the conditions listed in ITB Clause 13.8 are invoked;
  - be submitted in its original form; copies will not be accepted; and
  - remain valid for a period of 90 days beyond the original validity period of bids, or beyond any period of extension subsequently requested under ITB Clause 14;
- 13.4 Any bid not secured in accordance with ITB Clauses 13.3 will be rejected by the Purchaser.
- 13.5 Unsuccessful bidder's bid securities will be discharged or returned as promptly as possible but not later than 60 days after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to ITB Clause 14.
- 13.6 The successful Bidder's bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 29, and furnishing the performance security, pursuant to ITB Clause 30.
- 13.7 Where the Bidder has quoted for more than one Schedule, if the bid security furnished is inadequate for all the Schedules for which bid is submitted, the Purchaser shall take the price bid into account only to the extent the bid is secured. For this purpose, the extent to which the bid is secured shall be determined by evaluating the requirement of bid security to be furnished for the Schedules included in the bid (offer) in the serial order of the Schedule of Requirements of the Bidding document.
- 13.8 The bid security may be forfeited:
- if a Bidder (i) withdraws its bids during the period of bid validity specified in the bid documents; or
  - in case of a successful Bidder, if the Bidder fails:
    - to sign the Contract in accordance with ITB Clause 29; or
    - to furnish performance security in accordance with ITB Clause 30.
- 14. Period of Validity of Bids:**
- 14.1 Bids shall remain valid for 90 days after the deadline for submission of bids prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser considering it as non-responsive.
- 14.2 In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by cable). The bid security shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in ITB Clause 14.3 hereinafter.
- 14.3 In case of fixed prices contract, in the event that the Purchaser requests and the Bidder agrees to an extension of the validity period, the contract price, if the Bidder is selected for award shall be the bid price corrected as follows:  
The price shall be increased by the factor [Country's Projected Inflation for the period in question] for each week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful bidder.
- 14.4 Bid evaluation will be based on the bid prices including all taxes, levies & all other incidentals without taking into consideration the above corrections.
- 15. Format for submitting Bid:**
- 15.1 The Bidder shall submit scanned copy of all documents establishing Bidders qualifications for considering the bidder eligibility for performing the contract. Please note that prices should not be indicated in the technical bid. Bids submitted without following the two bid system procedure will be summarily rejected.

- 15.2 Financial bids should be submitted in the Bill of Quantity (BOQ). The lowest offered price of Technically Qualified bid will be selected for award of contract.

#### **D. SUBMISSION OF BIDS**

**16. Submission of Bids:**

- 16.1 The Cost of bid document, Bid Security and Declaration shall be sent by Registered Post with acknowledgement due/ courier so as to reach the Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India not later than the specified date and time. The envelope must be superscribed with "Bid for the Supply of Item mentioned in Schedule No. .... Part ..... of IFB No. ....". If the bidders or their agents in India do not propose to send the Cost of bid document, Bid Security and Declaration by Registered Post/ courier and if they wish to hand over the same personally they may do so by personally handing over the them to the Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun- 248001, Uttarakhand, India against an acknowledgement not later than the stipulated time and date.
- 16.2 All envelopes shall be addressed to the Purchaser at the following address:  
Chief Executive Officer, Uttarakhand Livestock Development Board,  
Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun-248001, Uttarakhand, India
- 16.3 All envelopes shall also indicate the name and address of the Bidder.
- 16.4 If the outer envelope is not sealed and marked as required as per ITB Clause 16.1; 16.2 & 16.3, the Purchaser will assume no responsibility for the misplacement.
- 16.5 Bids without Cost of Bid Document, Bid Security and Declaration will be rejected.

- 16.6 Technical Bid and Financial Bid (BOQ) must be submitted online on <https://uktenders.gov.in> and Technical Bid shall comprise scanned copies of all the documents as stipulated in invitation for bid document.** Those bidders who could not submit all required technical documents Online and have submitted Technical Document in Physical Form on or before the date & time as stipulated in bid document will also be considered for Technical Evaluation.

**17. Deadline for Submission of Bids:**

- 17.1 The Cost of bid document, Bid Security and Declaration must be received by the Purchaser at the address specified under ITB Clause 16.2 no later than the time and date specified in the bid document. In the event of the specified date for the submission being declared a holiday for the Purchaser, the same will be received up to the appointed time on the next working day.
- 17.2 The Purchaser may, at its discretion, extend this deadline for the submission of bids by amending the bid documents in accordance with ITB Clause 7, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

**18. Late Bids:**

- 18.1 Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, pursuant to ITB Clause 17, will be rejected and returned unopened to the Bidder.

**19. Modification and Withdrawal of Bids:**

- 19.1 NA.
- 19.2 NA
- 19.3 Bid shall not be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Declaration. Withdrawal of a bid during, this interval may result in the Bidder's forfeiture of its bid security, pursuant to the ITB Clause 13.

#### **E. BID OPENING AND EVALUATION OF BIDS**

**20. Opening of Bids by the Purchaser:**

- 20.1 The Purchaser will open Technical Bids of only those bidders whose Cost of Bid Document, Bid security and Declaration will reach to Uttarakhand Livestock Development Board by or before the date and time as specified in bid document, in the presence of Bidder's representatives who choose to attend, at specified date & time on the following location:  
Office of the Chief Executive Officer, Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun-248001, Uttarakhand, India  
The Bidders representative who are present shall sign a register evidencing their attendance. In event of the specified date of Bid opening being declared a holiday for the Purchaser, the Bids shall be opened at the appointed time and location on the next working day.  
Financial bids of Technically Qualified Bidders will only be opened. The decision of the committee on technical suitability shall be final and shall not be open for discussion.

- 20.2 The bidders names, bid modifications or withdrawals and the presence or absence of requisite bid security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening.
- 20.3 The Purchaser will prepare minutes of the bid opening.

**21. Clarification of Bids**

- 21.1 During evaluation of bids, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered and permitted.

**22. Evaluation and Comparison of Bids:**

- 22.1 **Technical Bid Evaluation:** Technical Bid shall be evaluated by the Committee on the basis of documents submitted in Technical Bids and other requirements establishing bidders eligibility & qualification. The list of Technically Qualified Bidders and date of opening of financial bids of technically qualified bidders will be intimated on <https://uktenders.gov.in>. The decision of the committee on technical suitability of bids shall be final and shall not be open for discussion.
- 22.2 **Evaluation of Financial bids: Financial Bid shall be evaluated on each Part of Schedule basis.**



- All the taxes and other levies indicated in the Financial Bid will be taken for the Financial Bid evaluation.
- Bid should be evaluated separately on Schedule/ Part of Schedule basis.
- The Bidder quoting the lowest price (L1) including all incidentals, taxes etc. will be selected for the award of contract
- However, ULDB does not bind itself in any way to select the bidder(s) offering the lowest price.

**23. Domestic Preference:** The domestic preference should be given to the Bidders in accordance to the Uttarakhand Procurement Rules 2008 only upon submission of relevant documentary proofs.

**24. Contacting the Purchaser:**

24.1 Subject to ITB Clause 21, no Bidder shall contact the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the purchaser, it should do so in writing.

24.2 Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the bid.

#### **F. AWARD OF CONTRACT**

**25. Award Criteria:**

25.1 Subject to ITB Clause 27, the Purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

**26. Purchaser's right to vary Quantities at Time of Award:**

26.1 The Purchaser reserves the right to increase or decrease by up to 25 percentage of the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

**27. Purchaser's Right to accept any bid and to reject any or all bids:**

27.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or bidders.

**28. Notification of Award:**

28.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder.

28.2 The notification of award will constitute the formation of the Contract.

28.3 Upon the successful Bidder's furnishing of performance security pursuant to ITB Clause 30, the Purchaser will discharge its bid security, pursuant to ITB Clause 13.

28.4 If, after notification of award, a Bidder wishes to ascertain the grounds on which its bid was not selected, it should address it's request to the Purchaser. The Purchaser will promptly respond in writing to the unsuccessful Bidder.

**29. Signing of Contract:**

29.1 At the same time as Purchaser notifies the successful bidder that its bid has been accepted, the Purchaser will send the bidder the Contract Form, incorporating the agreement to be signed between parties.

29.2 Within thirty (30) days of receipt of the Contract Form, the successful bidder shall sign and date the Contract on ₹100.00 Non Judicial Stamp Paper and return it to the Purchaser.

**30. Performance Security:**

30.1 Within thirty (30) days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the Conditions of Contract, in the Performance Security Form provided in the bidding documents or in another form acceptable to the Purchaser.

30.2 Failure of the successful bidder to comply with requirement of ITB Clause 29.2 or ITB Clause 30.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Purchaser may make the award to the next lowest evaluated bidder or call for new bids.

**31. Corrupt or Fraudulent Practices**

31.1 The board requires that Bidders/ Suppliers/ Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Board:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
  - (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
  - (ii) "fraudulent practices" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition
- (b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time,

**SECTION III : GENERAL CONDITIONS OF CONTRACT (GCC)**  
**TABLE OF CLAUSES**

<b><u>Clause Number</u></b>	<b><u>Topic</u></b>	<b><u>Page Number</u></b>
1	Definitions	11
2	Application	11
3	Country of Origin	11
4	Standards	11
5	Use of Contract Documents and Information	11
6	Patent Rights	11
7	Performance Security	11
8	Inspection and Tests	11
9	Packing	12
10	Delivery and Documents	12
11	Insurance	12
12	Transportation	12
13	Incidental Services	12
14	Spare Parts	12
15	Warranty	12
16	Payment	12
17	Prices	12
18	Change Orders	12
19	Contact Amendments	12
20	Assignment	12
21	Subcontracts	13
22	Delays in Supplier's Performance	13
23	Liquidated Damages	13
24	Termination for Default	13
25	Force Majeure	13
26	Termination for Insolvency	13
27	Termination for Convenience	13
28	Settlement/ Resolution of Disputes	14
29	Limitation of liability	14
30	Governing Language	14
31	Applicable Law	14
32	Notices	14
33	Taxes and Duties	14

**GENERAL CONDITIONS OF CONTRACT (GCC)**

**1. Definitions:**

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "The Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier in case of equipment, machinery covered under the Contract;
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Purchaser" means the organization purchasing the Goods, as named in SCC.
- (h) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract
- (i) "Board" means Uttarakhand Livestock Development Board, Dehradun.
- (j) "The Project Site", where applicable, means the place or places mentioned in bid document.
- (k) "Day" means calendar days.
- (l) "NA" means Not applicable

**2. Application:**

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

**3. Country of Origin:**

3.1 All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible under the rules of GoI.

3.2 For purposes of this Clause "origin" means the place where the Goods are mined, grown and produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of Goods and Services may be distinct from the nationality of the Supplier.

**4. Standards:**

4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specification, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods country of origin and such standards shall be the latest issued by the concerned institution.

**5. Use of Contract Documents and Information; Inspection and Audit by the Board:**

5.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.

5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

5.4 The supplier shall permit the Board to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Board, if so required by the Board.

**6. Patent Rights:**

6.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in the Purchaser's country.

**7. Performance Security:**

7.1 Within thirty (30) days of receipt of the notification of Contract award, the successful Bidder shall furnish to the Purchaser the performance security in the amount specified in SCC.

7.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

7.3 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms:

- (a) A bank guarantee or FDR issued by a nationalized/scheduled bank located in India or a bank located abroad acceptable to the Purchaser, in the form provided in the bidding documents or another form acceptable to the Purchaser; or
- (b) A demand draft.

7.4 The performance security will be discharged by the Purchaser and returned to the Supplier on written request of the supplier after completion of the Supplier's performance obligations, under the Contract, including any warranty obligations.

**8. Inspection and Tests: NA**

**9. Packing:**

- 9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, tough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser.

**10. Delivery and Documents:**

- 10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the schedule of Requirements. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

**11. Insurance:**

- 11.1 The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.

**12. Transportation:**

- 12.1 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India defined as Project site, transport to such place of destination in India including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier and the related cost shall be included in the Contract Price.

**13. Incidental Services:**

NA

**14. Spare Parts**

NA

**15. Warranty:**

- 15.1 The Supplier warrants that the Goods supplied under this Contract are as per the prevailing Guidelines of Government of India.
- 15.2 This warranty shall remain valid for 24 months after the Goods or any portion thereof as the case may be, have been delivered & accepted at the final destination indicated in the Contract.
- 15.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, replace the Goods, without cost to the Purchaser other than, where applicable & agreed by the Purchaser. The cost of inland delivery of the replaced Goods from ex-works or ex-factory or ex-showroom to the final destination shall be borne by the Supplier.

**16. Payment:**

- 16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in the SCC.
- 16.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the contract.
- 16.3 Payments shall be made within in sixty (60) days after submission of the invoice or claim by the Supplier & verification by the user regarding satisfactory supply.
- 16.4 Payment will be made in Indian Rupees.

**17. Prices:**

- 17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Purchaser's request for bid validity extension, as the case may be.

**18. Change Orders:**

- 18.1 The Purchaser may at any time, by written notice given to the Supplier, make changes within the general scope of the Contract in any one or more of the following:
- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
  - (b) the method of shipping or packing;
  - (c) the place of delivery; and/or
  - (d) the Services to be provided by the Supplier;
- 18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of Supplier's receipt of the Purchaser's change order.

**19. Contract Amendments:**

- 19.1 Subject to GCC Clause 18, no variations in or modifications of the terms of the Contract shall be made except by written amendment signed by the parties.

**20. Assignment:**

- 20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

**21. Subcontracts:**

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Subcontracts must comply with the provisions of GCC Clause 3.

**22. Delays in the Supplier's Performance:**

22.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified in the Schedule of Requirements

22.2 If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by written notices & contract amendment.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

**23. Liquidated Damages:**

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 24.

**24. Termination for Default:**

24.1 The Purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the Contract in whole or part.

(a) if the supplier fails to deliver any or all of the Goods within the period (s) specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 22; or

(b) if the supplier fails to perform any other obligation(s) under the Contract.

© if the supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this Clause:

**"corrupt practice"** means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.

**"fraudulent practice"** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Board, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Board of the benefits of free and open competition.

24.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

**25. Force Majeure:**

25.1 Notwithstanding the provisions of GCC Clauses 22, 23, 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolution, fires, floods, epidemics, quarantine restrictions and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**26. Termination for Insolvency:**

26.1 The purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

**27. Termination for Convenience:**

27.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

- 27.2 The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
  - (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.
- 28. Settlement/ Resolution of Disputes:**
- 28.1 The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.
- 28.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as per Indian Laws, as to the matter of dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 28.2.1 Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with the Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
- 28.2.2 Arbitration proceedings shall be conducted in accordance with the Indian Laws
- 28.2.3 Only local court (Dehradun) shall have jurisdiction of dispute
- 28.3 Notwithstanding any reference to arbitration herein;
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
  - (b) the Purchaser shall pay the Supplier any money due the Supplier.
- 29. Limitation of Liability:**
- 29.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and
  - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.
- 30. Governing Language:**
- 30.1 The contract shall be written in English language. Subject to GCC Clause 30, English / Hindi language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.
- 31. Applicable Law:**
- 31.1 The Contract shall be interpreted in accordance with the laws of the Union of India.
- 32. Notices:**
- 32.1 Any notice given by the one party to the other pursuant to this Contract shall be sent to other party in writing or by cable, telex or facsimile and confirmed in writing to the other Party's address specified in SCC.
- 32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.
- 33. Taxes and Duties:**
- 33.1 The Suppliers shall be entirely responsible for all taxes, duties, octroi & other requirements etc., incurred until delivery of the contracted Goods to the Purchaser.

**SECTION IV : SPECIAL CONDITIONS OF CONTRACT (SCC)****TABLE OF CLAUSES**

<b><u>Item No.</u></b>	<b><u>Topic</u></b>	<b><u>Page Number</u></b>
1	Definitions (GCC Clause 1)	16
2	Country of Origin (GCC Clause 3)	16
3	Performance Security (GCC Clause 7)	16
4	Inspection & Tests (GCC Clause 8)	17
5	Packing (GCC Clause 9)	17
6	Delivery and Documents (GCC Clause 10)	17
7	Insurance (GCC Clause 11)	17
8	Incidental Services (GCC Clause 13)	17
9	Spare Parts (GCC Clause 14)	17
10	Warranty (GCC Clause 15)	17
11	Payment (GCC Clause 16)	18
12	Prices (GCC Clause 17)	18
13	Sub-contracts (GCC Clause 21)	18
14	Liquidated Damages (GCC Clause 23)	18
15	Notices (GCC Clause 32)	18
16	Progress of supply	18

**SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions is indicated in parentheses.

1. **Definitions (GCC Clause 1):**
  - (a) The Purchaser is Chief Executive Officer, ULDB, Dehradun
  - (b) The Supplier is .....
2. **Country of Origin (GCC Clause 3):**  
All countries and territories eligible & approved by Government of India.
3. **Performance Security (GCC Clause 7):**
- 3.1 Within 30 days after the Supplier's receipt for Notification of Award, the Supplier shall furnish Performance Security to the Purchaser for an amount as detailed below, valid up to 60 days after the date of completion of performance obligations including warranty obligations:

Schedule No./ Part of Schedule	Brief Description of Item	Performance Security
One Part A	Upright Microscope	6% of Net Quoted Price
One Part B	Research Stereomicroscope	5% of Net Quoted Price
Two Part A	Ultrasound Machine, Monitor, Probe and Ovum Pick up Assembly for Bovines	6% of Net Quoted Price
Two Part B	Embryo Freezer	6% of Net Quoted Price
Three	CO2 Incubator	6% of Net Quoted Price
Four Part A	Microscope Heating Plate for SMZ 1000 Zoom Stereo microscope	8% of Net Quoted Price
Four Part B	Microscope Heating Plate for Inverted research microscope TiE model Nikon Make	8% of Net Quoted Price
Five	Heat/Warming Plate with integrated temperature control to be supplied with Warming blocks	8% of Net Quoted Price
Six Part A	Bead Bath with temperature control unit for holding of Embryo /Semen straws and various Tubes	8% of Net Quoted Price
Six Part B	Temperature control ports for microscope plates (heating), Heating plates & Bead baths	8% of Net Quoted Price
Seven	Micro Pipettes	6% of Net Quoted Price
1	0.5 - 10µl Capacity Micro Pipettes with Stand	
2	20 - 200 µl Capacity Micro Pipettes with Stand	
3	100 - 1000 µl Capacity Micro Pipettes with Stand	
4	1000-5000 µl capacity Micro Pipettes with Stand	
5	Pipette Stand to hold 04 Pipettes	
Eight Part A	IVF Work Station with Temperature Control Working Platform and 02 Zoom Stereo Microscopes	5% of Net Quoted Price
Eight Part B	Headed trolley for Ovum Pick UP	8% of Net Quoted Price
Eight Part C	Bio Safety Cabinet Class II Type B	8% of Net Quoted Price
Nine	Air Purification System	6% of Net Quoted Price
Ten	Denudation Pipette for Bovine Oocytes	8% of Net Quoted Price
Eleven	Ethylene Oxide sterilizer with Sealing Machine, Packing Material & Cartridge	6% of Net Quoted Price
Twelve Part A	Bench Top Centrifuge	8% of Net Quoted Price
Twelve Part B	Bench Top Incubator	8% of Net Quoted Price
Thirteen Part A	Double Distillation Assembly	8% of Net Quoted Price
Thirteen Part B	Vertical Autoclave	8% of Net Quoted Price
Thirteen Part C	Hot Air Oven	8% of Net Quoted Price
Thirteen Part D	Fumigator	8% of Net Quoted Price
Thirteen Part E	Vortex	8% of Net Quoted Price
Thirteen Part F	Garment Storage Cabinet	8% of Net Quoted Price
Fourteen Part A	Embryo cup filter warmer	8% of Net Quoted Price
Fourteen Part B	Slide Warmer	8% of Net Quoted Price
Fourteen Part C	Oocyte Embryo Shipping Incubator	8% of Net Quoted Price
Fourteen Part D	Embryo 0.25 MI Straw Shipping Incubator	8% of Net Quoted Price
Fifteen Part A	Accurate Temperature Measurement Probe	8% of Net Quoted Price
Fifteen Part B	Volatile Organic Compounds Level Monitor	8% of Net Quoted Price
Sixteen	Embryo/ Semen Storage Type Liquid Nitrogen Vessel	8% of Net Quoted Price
Seventeen	Consumables Item for IVF Lab	6% of Net Quoted Price
Eighteen	Consumables Items for In-vivo Embryo Production	6% of Net Quoted Price
Nineteen	Media and Chemical for Bovine ET and IVF	6% of Net Quoted Price
Twenty	Disinfectants and other consumables	8% of Net Quoted Price



Twenty One Part A	20 KVA Silent Generator	6% of Net Quoted Price
Twenty One Part B	On Line 3 KVA UPS With Battery	6% of Net Quoted Price

In the event of any corrected of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 24 month

- 3.2 Substitute Clause 7.3(b) of the GCC by the following:  
A crossed demand draft or pay order drawn in favour of ULDB, payable at Dehradun.
- 3.3 Substitute Clause 7.4 of the GCC by the following:  
The Performance Security will be discharged by the Purchaser and returned to the Supplier on written notice of the Supplier 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligation, under the contract.
- 3.4 Add as Clause 7.5 to the GCC the following:  
In the event of any contract amendment, the Supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 60 days after the completion of performance obligations including warranty obligations.
4. **Inspection and Tests (GCC Clause 8):**  
NA
5. **Packing (GCC Clause 9):**  
Add as Clause 9.3 of the GCC the following:  
Packing Instructions: The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink, the following:  
i) Project ii) Contract No. iii) Country of Origin of Goods iv) Supplier's Name, and v) Packing list reference number.
6. **Delivery and Documents (GCC Clause 10):**  
(a) *For Goods supplied from abroad:*  
Upon delivery of the Goods, the supplier shall notify the purchaser and the insurance company by cable/telex/fax the full details of the shipment including contract number, railway/ airway receipt number and date, description of goods, quantity, name of the consignee etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:  
(i) 4 Copies of the Supplier invoice showing contract number, goods' description, quantity, unit price, total amount;  
(ii) Railway/ Airway receipt/acknowledgment of receipt of goods from the consignee(s);  
(iii) 4 Copies of packing list identifying the contents of each package;  
(iv) Insurance Certificate;  
(v) Manufacturer's/Supplier's warranty certificate; Certificate narrating that Semen and embryos supplied are as per the Guideline laid down by Government of India and the embryos are meeting the IETS Manual (4<sup>th</sup> Edition) standard  
(vi) Certificate of Origin;  
The above document shall be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.
7. **Insurance (GCC Clause 11):**  
The insurance shall be in an amount equal to 110 percent of the CIF or CIP value of the Goods from "Warehouse to warehouse (final destination)" on "All Risks" basic including War Risks and Strikes.
8. **Incidental Services (GCC Clause 13):**  
No additional services other then covered under Clause 13 of GCC.
9. **Spare Parts (GCC Clause 14):**  
Add as Clause 14 to the GCC the following: NA
10. **Warranty (GCC Clause 15):**  
(i) G.C.C. Clause 15.2  
The warranty period shall be 24 months or 60 months as stipulated in technical specification from date of acceptance of goods. The Supplier shall, in addition, comply with the performance &/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion either;  
(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4;  
(b) Substitute Clause 15.4 of the GCC by the following:  
"Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts /goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter.  
In the event of any correction of defects or replacement of defective material during the warranty period, the warranty **for the corrected/ replaced material shall be extended to a further period of 24 months.**"  
(ii) GCC Clauses 15.4 and 15.5:  
The period for correction of defects in the warranty period is 15 days.

- 11. Payment (GCC Clause 16):**  
The price of the goods purchased will be paid in the Currency in which the price has been stated in the successful bid.
- (i) **Advance Payment:** NA
- 12. Prices (GCC Clause 17):**  
Prices payable to the supplier as stated in the contract shall be firm during the performance of the contract.
- 13. Sub-contracts (GCC Clause 21):**  
Add at the end of GCC sub-clause 21.1 the following:  
Sub-contract shall be only for bought-out item and sub-assemblies
- 14. Liquidated Damages (GCC Clause 23):**
- 14.1 For delays :**  
GCC Clause 23.1 -- The applicable rate is 0.5% per week and the maximum deduction is 10% of the contract price after that the contract shall be treated as cancelled & the performance security deposited by the supplier will be forfeited.
- 15. Notices (Clause 32):**  
For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.  
Purchaser: Chief Executive Officer, Uttarakhand Livestock Development Board, Pashudhan Bhawan, Ist Floor, P.O. Mothrowala, Dehradun-248011, Uttarakhand, India  
Supplier: (To be filled in at the time of Contract signature) .....
- 16. Supplier shall regularly intimate progress of supply, in writing, to the purchaser as under:**
- Quantity dispatched /delivered to consignees and date;
  - Date of completion of entire Contract including incidental services, if any; and
  - Date of receipt of entire payments under the Contract

**SECTION V : SCHEDULE OF REQUIREMENTS****Note:**

1. The date of delivery means the dates when goods are delivered to the consignee
2. The supplier shall be responsible for safe delivery of the goods up to consignee's store.
3. The delivery schedule will start from the date of placement of order.

Schedule No./ Part of Schedule	Brief Description of Item	Qty.	Delivery schedule
One Part A	Upright Microscope	01 No.	One month from the date of Order
One Part B	Research Stereomicroscope	01 No.	One month from the date of Order
Two Part A	Ultrasound Machine, Monitor, Probe and Ovum Pick up Assembly for Bovines	01 No.	One month from the date of Order
Two Part B	Embryo Freezer	01 No.	One month from the date of Order
Three	CO2 Incubator	01 No.	One month from the date of Order
Four Part A	Microscope Heating Plate for SMZ 1000 Zoom Stereo microscope	01 No.	One month from the date of Order
Four Part B	Microscope Heating Plate for Inverted research microscope TiE model Nikon Make	01 No.	One month from the date of Order
Five	Heat/Warming Plate with integrated temperature control to be supplied with Warming Blocks	02 Set	One month from the date of Order
Six Part A	Bead Bath with temperature control unit for holding of Embryo /Semen straws and various Tubes	01 No.	One month from the date of Order
Six Part B	Temperature control ports for microscope plates (heating), Heating plates and Bead baths	01 No.	One month from the date of Order
Seven	Micro Pipettes		One month from the date of Order
1	0.5 - 10µl Capacity Micro Pipettes	02 No.	
2	20 - 200 µl Capacity Micro Pipettes	02 No.	
3	100 - 1000 µl Capacity Micro Pipettes	02 No.	
4	1000-5000 µl capacity Micro Pipettes	02 No.	
5	Pipette Stand	02 No.	
Eight Part A	IVF Work Station with Temperature Control Working Platform with installed 02 Zoom Stereo Microscopes	01 No.	One month from the date of Order
Eight Part B	Headed trolley for Ovum Pick UP	01 No.	One month from the date of Order
Eight Part C	Bio Safety Cabinet Class II Type B	01 No.	One month from the date of Order
Nine	Air Purification System	01No.	One month from the date of Order
Ten	Denudation Pipette for Bovine Oocytes	02 No.	One month from the date of Order
Eleven	Ethylene Oxide sterilizer with Sealing Machine, Packing Material & Cartridge	01 No.	One month from the date of Order
Twelve Part A	Bench Top Centrifuge	01 No.	One month from the date of Order
Twelve Part B	Bench Top Incubator	02 No.	One month from the date of Order
Thirteen Part A	Double Distillation Assembly	01 No.	One month from the date of Order
Thirteen Part B	Vertical Autoclave	01 No.	One month from the date of Order
Thirteen Part C	Hot Air Oven	01 No.	One month from the date of Order
Thirteen Part D	Fumigator	01 No.	One month from the date of Order
Thirteen Part E	Vortex	01 No.	One month from the date of Order
Thirteen Part F	Garment Storage Cabinet	01 No.	One month from the date of Order
Fourteen Part A	Embryo cup filter warmer	01 No.	One month from the date of Order

Fourteen Part B	Slide Warmer	01 No.	One month from the date of Order
Fourteen Part C	Oocyte Embryo Shipping Incubator	01 No.	One month from the date of Order
Fourteen Part D	Embryo 0.25 MI Straw Shipping Incubator	01 No.	One month from the date of Order
Fifteen Part A	Accurate Temperature Measurement Probe	01 No.	One month from the date of Order
Fifteen Part B	Volatile Organic Compounds Level Monitor	01 No.	One month from the date of Order
Sixteen	Embryo/ Semen Storage Type Liquid Nitrogen Vessel	01 No.	One month from the date of Order
Seventeen	Consumables Item for IVF Lab	Variable	One month from the date of Order
Eighteen	Consumables Items for In-vivo Embryo Production	Variable	One month from the date of Order
Nineteen	Media and Chemical for Bovine ET and IVF	Variable	One month from the date of Order
Twenty	Disinfectants & Disposables	Variable	One month from the date of Order
Twenty One Part A	20 KVA Silent Generator	01 No.	One month from the date of Order
Twenty One Part B	On Line 3 KVA UPS With Battery	01 No.	One month from the date of Order

Address of Consignee:

1. Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**SECTION VI : TECHNICAL SPECIFICATIONS****Notes for Preparing the Technical Specifications**

In the specifications of standards for equipment, materials, and workmanship, recognized national & international standards are used. The specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable.

**Sample Clause: Equivalency of Standards and Codes**

Where reference is made in the Technical Specification to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant standards or codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number is avoided as far as possible; where unavoidable they should be followed by the words " or at least equivalent".

Where appropriate, drawings including site plans as required may be furnished by the Purchaser with the bidding documents. Similarly the Supplier may be requested to provide drawings with its bid for prior review by the Purchaser during contract execution.

**SCHEDULE: ONE PART A:****TECHNICAL SPECIFICATION OF UPRIGHT MICROSCOPE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported Upright Microscope with illumination for Bright field and Phase contrast application with camera for quality control of semen samples.

Microscopes stand with Apo chromatic corrected/ harmonic component system.

LED Transmitted light with life span of approx. 50,000 hrs with time delay illumination shut off facility.

Nose Piece: Sextuple revolving interchangeable DIC nosepiece.

Observation Tube: Should be trinocular wide field, three way light path distribution for simultaneous viewing and imaging of the specimens. 30 degree inclined tube with locking mechanism for eyepieces. Field of view 25 mm or above.

Mechanical stage with ultra hard ceramic stage plate and coaxial drive

Eyepiece 10x (x2), focusable with diopter adjustment facility with field of view of at least 22mm or higher

Condenser: Universal condenser suitable for bright field (BF), phase contrast (PH), dark field and DIC having N.A. 0.9 or higher with at least 6 slots for optical elements with freely rotatable condenser head.

Objectives: The following objectives should be quoted:-

Plan Achromat 10X (N.A. 0.25 or more, W.D. 10.5 mm or higher) BF, PH

Plan Achromat 20X (N.A. 0.40 or more, W.D. 0.35 mm or higher) BF, DIC

Plan Achromat 40X (N.A. 0.65 or more, W.D. 0.35 mm or higher),BF, DIC

Plan Achromat 100X Oil (N.A. 1.25 or more, W.D. 0.15 mm or higher), BF, PH

Focus knobs with Coarse (1µm) and fine (0.3µm).

Heating stage suitable for ambient temperature to 50°C, Tokai Hit or equivalent, Temperature accuracy +/- 0.3°C. Ten years warranty on glass. Suitable for 35/50/60mm dishes

Certification: CE or any other international certification. Certificate to be provided

HD color CMOS/CCD Camera minimum of 10 Mega Pixel OR Better, speed 30 frame per second or better.

Camera, Software (and Microscope of the same manufacturer company).

Laptop: 15 inch , Windows 10 Home , 8th Generation Intel® Core™ i8 processor,4 GB DDR4-2666 SDRAM (1 x 4 GB), 2 TB , 7200 rpm SATA, Intel® UHD Graphics 630. Should have MS office original software with CD.

Must provide catalogue number of all parts of equipments as above. Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: ONE PART B****TECHNICAL SPECIFICATION OF RESEARCH STEREOMICROSCOPE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

1. Imported stereo microscope with Optics & Zoom Ratio: Imported Research stereozoom microscope with Common Main Objective optics & optical zoom of 18:1 or better zoom ratio with total magnification range of 0.7x to 16 x or better with 1X Objective. Microscope should have coarse and fine focusing knobs. Focus drive coarse/fine with min. 400mm focus column.

User should able to get high Resolution & depth of field simultaneously at the eyepieces.

The entire optics of the microscope should be fully apochromatically corrected including the zoom optics.

2. Resolution: Minimum 1000 lines/mm or better
3. Observation tube: Binocular observation tube inclined at 30° to 45° or better with light path distribution of 100:0, 50:50/80:20, 0:100. Interpupillary distance adjustment range of 52 – 76 mm or better.
4. Eyepiece: 10x paired with Field of view 23 mm or better with diopter adjustment in both eyepieces.
5. Objective: It should have revolving nosepiece with one objective  
Plan Apochromat 1x objective with minimum working distance of 60 mm and N.A. 0.17 or better.
6. Diascopic Illumination: Diascopic (Transmitted Light Base) with LED illumination having life time of more than 25000 hrs and suitable for Rottermann/positive and negative release Contrast, brightfield and darkfield. Light intensity adjustment system.
7. Heating Plate: Imported Glass heating plate with Tokoi Hit heating system, ambient room temperature to 50 °C, Dimension: As suitable for the microscope and for 35/50/60mm dishes and multiwell plate
8. Certification: CE conformity certified and provide certificate in original.
9. Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

10. Must provide catalogue number of all parts as above.
11. Must provide the authorization certificate for sale form the manufacturer, if not quoted by original manufacturer.
12. Warranty for 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWO PART A**

#### **TECHNICAL SPECIFICATION OF ULTRASOUND MACHINE, MONITOR, PROBE AND OVUM PICK UP ASSEMBLY FOR BOVINES:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

#### **Portable Ultrasound Machine, colour dropler, with Ovum Pick-Up Assembly in Bovines with battery.**

Ultrasound machine is required for high grade veterinary purpose and Ovum Pick Up technology in large animals i.e. for cattle and buffaloes.

Should be portable, providing excellent image quality, ultrasound machine should have multiple operating modes viz. B mode, Colour B mode, M mode, Colour M Mode, PDI, dual B mode, B & M mode. Should have minimum 15" LCD monitor, touch screen for various function control , inbuilt software for veterinary use (Software in original to be provided), memory to store min 1000 image, clip storage facility and should have facility to export images, clips, reports, patient file via USB and also have printer for direct printing. Minimum 50 rolls of printings to be provided.

The Ultrasound must be able to measure the length, area and the volume of the ovaries, the follicles and the corpus luteum on the ovary and store the date. The monitor must show high quality live image of ovary and various structures such as follicle and Corpus luteum on the ovary for easy aspiration of the follicles.

The monitor must have facility for depth, contrast adjustment and their numerical display, and numerical display of probe different frequencies.

The Z trolley to hold the scanner should be provided of the same company make to that of Ultrasound, the height of trolley should be suitable to keep the ultrasound at the eye level height and enough space to hold the probe, Ultrasound and other accessories such as USG Gel etc.

Monitor must show the biopsy guide line at the time of ovum pick up in the display for guided aspiration, suitable case for ultrasound machine, minimum 2 no. of connectable probe facility or should have facility to interchange the probe. Imported items of international brands to be quoted only. (Mirror image and upside down live image changing facility).

Should have multiple probe attachment ports,

Ultrasound Transducer/Probes & Probe holder:

**Ovum Pick Up Convex Trans Vaginal Transducer:** Bovines specific compatible to above display Company should provide Multi frequency probe ranging 5-10MHz for veterinary use in large animals. – One in number

**Probe holder** -Must be provided the handle /probe holder to hold the OPU probe with biopsy guide incorporated for OPU in bovines. - One in Number

**Needle guiding system to fit the OPU needle, cover for probe holder**-The needle guiding system should be junk proof and should have all accessories, adaptors to fit the 17 and 18 or 20 Gauze OPU needles along with the tubing. –Two in Numbers required.

Suitable ultrasound gel for probe, imported, compatible with supplied ultrasound machine for OPU in bovines 100 ml bottles - 50 bottles to be supplied.

The disposable cover that can cover the convex probe at the time of aspiration:- The disposable cover for one time use on the ultrasound probe for each time Ovum pick up to avoid the infection from one animal to another-200 Nos required.

**Vacuum Pump (Aspiration Unit):** Imported Vacuum pump and all tubing and fitting supplied to provide suitable vacuum pressure(0-500 mm Hg) for OPU in bovine and compatible with above aspiration assembly, adjustable tone during suction applied, LED display for pressure (in mmHg) , foot pedal operated or better method, imported item of international brand should be quoted.

**Test Tube Warmer:** Imported, One suitable 50 ml tube holder and used to control the temperature of test tubes and their contents during oocyte recovery and minimize temperature-induced damage to the oocyte, The clear front panel allows continuous observation of the test tubes' contents, easy cleaning, The heater maintains an operating temperature of 30 to 37 °C, light on the front of the heater indicates that the unit is powered.

**Consumables (Needle, Tubing for Needle, Stopper Assembly):** Sterile aspiration Needle 17-18 G- required in 200 Numbers and Aspiration Needle 20 G required 200 Numbers, single lumen OPU needle which can be fitted in the above biopsy guide of the transvaginal probe for oocyte aspiration in bovine,

**Tubing: 50 Nos.** Combatale to the aspiration needle with clear visibility during puncturing of follicles, compatible with biopsy probe, sterilized , tubing , coated surface so that COC's should not stick the tubing wall, non toxic to oocytes imported.

Stopper Assembly: 05 no. for 50 ml conical tube & 05 no. for 15 ml conical tube, silicon rubber cork, sterile, imported, should be compatible with above system for aspiration of oocytes

Should be installed on site with complete user technical training and demonstration in minimum 10 animals.  
 All accessories required for function of instrument should be provided with instruments.  
 Should provide the user's list of the National/International laboratories used for OPU in bovine with certificate of at least 2 years satisfactory function report from two users.  
 Fitted in Indian electric system.  
 Should provide 3 KVA servo stabilizers.  
 Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

## **SCHEDULE: TWO PART B**

### **TECHNICAL SPECIFICATION OF EMBRYO FREEZER:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Liquid nitrogen based freezer for cryopreservation of bovine embryos with a complete assembly of Temperature Controller, Cryochamber, and a Cryobath.

Temperature controller Temperature control range +40°C to -120°C. Minimum of 16 preinstalled programs for temperature regulations.

It should be provided with the latest dedicated software for user based programming with minimum of 16 temperature programming facility.

It should have Windows based proprietary software to program temperature which allows real time monitoring of the temperature during freezing process and that should be recorded in the computer. The software should provide monitoring, recording, and control of freezing and thawing profiles.

Allows the user to view all data graphically as it is created or at a later time. Should have facility to analyze and export temperature data to other programs such as spreadsheets or databases, save, and print profile data with communication ports and USB.

Temperature measurement and for control are performed to within the range of  $\pm 0.1^\circ\text{C}$  Standard cryobath to hold liquid nitrogen.

Cryo chamber –Minimum of 45 straws of 0.25 ml (mini straws) can be frozen vertically at a time. The lid should be according to the above straws. Maximum Cooling Rates at 20°C should be 8°C/min.

Carry case: Should provide the carry case horizontal type that can be used for the transportation of the above embryo freezer.

Min. two installation reports for cryopreservation of bovine embryos should be accompanied with technical bid.

Must provide minimum two years warranty.

Must provide the company name and catalogue no. for quoted item.

Electric supply: Fit to Indian electric system with earthing pin.

Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

## **SCHEDULE: THREE**

### **TECHNICAL SPECIFICATION OF CO2 INCUBATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported CO2 incubator with approx. 140 to 160 liters capacity system.

- The interior should have rounded corners. The chamber is made up from a single sheet of stainless steel.
- It should have perforated all shelves copper or copper alloy mix made with removable humidity pan and shelves. Minimum of 5 shelves with 4 Split inner doors, subdivided inner glass door with 4 small doors with sealed glass doors.
- Lockable front door tightly sealed inner glass doors. (High quality door gasket maintains a leak-free seal).
- Must have **Temperature control and display**. The chamber should have heating system with dual temperature sensor. Temperature range from 5°C above ambient to 50° with temperature variation not more or less than .3 degree Celsius and temperature stability at 37°C of not more than 0.1 °C variations



- Must have **Humidity display with sensor** with provision of water reservoir container **Copper made or copper mix alloy made** to create humidity. One additional Humidity sensor to be provided.
  - Must have **CO2 control and display**. CO2 Range with minimum of 0.2 - 20% with  $\pm 0.5$  % accuracy. Infra Red sensor or Dual beam IR sensor for specific and accurate control of CO2 levels. Should be provided with additional port for CO2 Sampling.
  - The CO2 incubator must be supplied with Coda /Origo CO2 and N2 in line gas purification filters with three additional set to be provided.
- Must provide port for gas analyzer.
- Must provide all the silconised transparent tubing for connection from cylinders to CO2 incubator with two additional set of tubing with minimum of 3 meter length and in must have fittings in between the tubing for inline filters so that inline filters can be placed between the tube. . The tubing must be fit to be used for embryo culture.
  - Below 5 minutes recovery time of CO2 and Temperature and humidity inside the chamber.
  - ICD/ LED display with touch screen controls. & data logging of temperature, humidity, CO2, door openings, The system to be supplied with all necessary tubing, ports and nozzles.
  - Wet heat/Humidified decontamination at 90 to 95 °C and/or High Temperature dry heat above 120°C.
  - It should have optical and acoustic alarm if set point deviation or sensor defect occurs with Door monitoring and Remote alarm.
- System to be fitted with on board data entry and logging facility and company specific Interface for communication with USB port and external instrument logging along with Software so that the system can be connected to PC.
- Suitable platform , Vibration free to keep CO2 incubator over it with its leg labeler facility 2 feet height stainless steel made with Granite top suitable to keep the above incubator on it.
  - Incubator must be supplied with filled CO2 Cylinders- 10 Numbers .Each cylinder should be approximately 40 liters capacity or more (filled with medical grade CO2, at the time of supply certificate to be provided ).
  - Two stage CO2 regulator (of same company as of CO2 Incubator) – 03 Number capable to with hold the pressure of minimum of 1.4 bars for gas supply to incubator with indicators for pressure and quantity of gas.
  - Should also provide filled 05 numbers of Tri gas cylinder which contains medical grade and certified CO2 -6.8 % and O2- 6.5% and remaining N2 cylinder premixed (or as demand put at the time of placing order) suitable for embryo culture. Each cylinder with 47 liters water capacity, 7 CubM gas volumes with 120 to 130 Kg/cm2 pressure.
- .Servo stabilizer 5 KVA
- Must provide the Company name and catalog number for each item required in the system.
  - Incubator **must should be provided with calibration certificate** after the installment.
  - Must provide the Company name and catalog number for each item.
- Must provide catalogue number of all parts as above. Fit to Indian electrical system such as plugs and frequency. European CE certified. Certificated to be provided, IEC 61010 complained. Certificated to be provided. Must provide breakdown visit within one week from the date of complaint.
- Must visit technical visit every 6 months for two years.
- Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.
- Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FOUR PART A**

#### **TECHNICAL SPECIFICATION OF MICROSCOPE HEATING PLATE FOR SMZ 1000 ZOOM STEREO MICROSCOPE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

- Imported Glass heating plate for SMZ 1000 model purchased in 2006, with Tokai Hit heating system- temperature control , ambient room temperature to 50 °C, Dimension: As suitable for the microscope and for 35/50/60mm dishes and multiwell plate. The heating plate is to be fitted in SMZ 1000 Nikon make purchased in 2006. The bidder has to fit the heating plates on the microscopes at Lab.
- Warranty: 5 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: FOUR PART B****TECHNICAL SPECIFICATION OF MICROSCOPE HEATING PLATE FOR INVERTED RESEARCH MICROSCOPE TIE MODEL NIKON MAKE:**

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

- Imported Glass heating plate with Tokai Hit heating system- temperature control, ambient room temperature to 50 °C, Dimension: As suitable for the microscope and for 35/50/60mm dishes and multiwell plate. The heating plate is to be fitted in SMZ 1000 Nikon make purchased in 2010. The bidder has to fit the heating plates on the microscopes at Lab.
- Warranty: 5 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: FIVE****TECHNICAL SPECIFICATION OF HEAT/ WARMING PLATE WITH INTEGRATED TEMPERATURE CONTROL TO BE SUPPLIED WITH WARMING BLOCKS:**

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported Warming plates with integrated temperature control with inbuilt temperature control and display or temperature control and display that can be used for maintaining the temperature of oocytes and sperm samples at 37°C or during oocyte pickup and during the IVF procedure. Made of Aluminum or HI-MACS or better material , non toxic and non adherent and easy to clean surface. Temperature control ambient to 45°C or more with temperature accuracy  $\pm 0.5^\circ$  C or below. Size 250 mm X500mm or bigger then this size. Power consumption 90 - 150W. Fit to Indian electrical system such as plugs and frequency Warranty 2 years from the date of supply. European CE certified. Must provide catalogue number of all parts as above.

**Warming blocks:** Imported warming blocks that can either be used in workstations, incubators, warming plates, dry bath incubators and incubator hoods. European CE certified and certificate to provided.

Warming block size	Quantity
Warming block for 35 mm round petridish	02
Warming block for 60 mm round petridish	01
Warming block for 4 well IVF NUNC dish	02
Warming block for 15 ml conical falcon tube tilt (14/17CC)	01
Warming block for 15 ml conical falcon tube (14/17CC)	01
Warming block for 10 ml syringe	01
Warming block for media flask / bottle 100 ml or larger volume	02
Warming block 50 ml for three tubes	01

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: SIX PART A****TECHNICAL SPECIFICATION OF BEAD BATH WITH TEMPERATURE CONTROL UNIT FOR HOLDING OF EMBRYO /SEMEN STRAWS AND VARIOUS TUBES:**

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Temperature controlled incubator for sample tubes or straws of different sizes (up to 15 mm diameter), with steel balls inside for secure fixation. Temperature range between ambient and +55°C. Requires a separate control unit. Usable height: 135 mm. Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: SIX PART B**

##### **TECHNICAL SPECIFICATION OF TEMPERATURE CONTROL PORTS FOR MICROSCOPE PLATES (HEATING), HEATING PLATES AND BEAD BATHS:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

**Heating/Warming system- 01 in number:** with minimum three different ports for temperature control at different temperatures of the heating plates of the microscopes and/ or the heating plate and /or Bead bath. Plate to be used for used for maintaining the temperature of different media s at 30°C to at 37°C. All the three temperature controlling ports to be working together

**Heating plate-01 in number:** Made of Aluminum or HI-MACS or better material , non toxic and non adherent and easy to clean surface. Temperature control ambient to 45°C or more with temperature accuracy  $\pm 0.5^\circ$  C or below. Size 350 mm X550mm or bigger then this size. Must provide the heating block with holding of minimum 3 numbers of 50 ml tube with heating height of 40 ml mark of the tube.

**Heating block- 01 Number** to be supplied. The heating block should allow visual assessment of the contents in the tube and the level of contents in the tube Power consumption 150 W or more as all the ports are to used at a time. Fit to Indian electrical system such as plugs and frequency.

European CE certified Certificate must be submitted in Technical Bid.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: SEVEN**

##### **TECHNICAL SPECIFICATION OF MICRO PIPETTES-TWO SETS OF MICRO PIPETTES EACH 0.5 - 10 $\mu$ L, 20 - 200 $\mu$ L AND 100 - 1000 $\mu$ L 1000-5000 $\mu$ L CAPACITIES WITH TWO SET OF STANDS TO HOLD 4 PIPETTES:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported, Micropipette Adjustable, single channel, working volume ranges should be as follows 0.5 - 10 $\mu$ l , 20 - 200  $\mu$ l and 100 - 1000  $\mu$ l 1000-5000  $\mu$ l – two sets of each pipette for each volume range.

Pipette of above capacities with adjustable volume and volume locking system.

Must provide 2000 sterilized tips , MEA/certified for embryo handling for 0.5 - 10 $\mu$ l, 20 - 200  $\mu$ l and 100 - 1000  $\mu$ l 1000-5000  $\mu$ l pipettes.

Additionally provide 2000 sterilized filter tips 0.5 - 10 $\mu$ l packed in the tip boxes , MEA/certified for embryo handling . Should withstand to exposure of harsh chemicals. It should be autoclavable and resistant to UV light. Pipette stand- 2 Sets to hold above two sets of pipettes.

It should be CE marked and certified. Certificate to be provided.

Spring loaded cone, very low operating force, combined control button and ejector.

It should be easy to operate and have 4 digit volume displays.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: EIGHT PART A**

##### **TECHNICAL SPECIFICATION OF IVF WORK STATION WITH TEMPERATURE CONTROL WORKING PLATFORM AND TWO ZOOM STEREO MICROSCOPES:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported IVF working Cabinet Class II, vertical air flow, for both sample and human protection 1800 mm size (6 feet) which can hold two stereo zoom microscopes simultaneously. It must be indicated for use as in assisted reproduction technologies and IVF laboratory.

Stainless Steel built with even and stable temperature in the heated surface and its controller with heated glass (45mm or more) with its controller inbuilt. Total heated working area should be in total minimum of 450mm X1550 mm inside the bench of work station which can have multiple working zones or minimum of 450mmx650mm heated area per stereo microscope with in between heated areas to keep pet dishes. Should have preferably UV light on the top of work station

Should hold imported stereo zoom microscopes (both) either Leica or Zeiss ( Specifications below) in the working area with their mounting assembly. It should have suitable heated glass (2 in number) and their temperature control separately for two stereo zoom to be mounted. The light source for the microscope must be LED which can be easily adjustable for dark and bright light illuminations and should have filters for light.

Heated surface and heated surface controller • Heated Glass and controller

Noise Level below 51 dB, Must have UV light provision for disinfection and germicidal. Airflow not to exceed 0.35 m/s. Humidification system should be inbuilt or otherwise separately provided to provide humidified gas (with heating system) in the gas port inside laminar. Suitable glass lid to hold the culture dishes in the micro environment of humidified gas tubing from the gas cylinders may be provided.

HEPA filter class H-14 that can remove at least 99.995 % of all airborne particles down to 0.3 microns (To be replaced every year by successful bidder for two years) . Provision for carbon filters to remove VOC.

Should have built in software/System that can show all vital parameters of IVF work station such as Air flow, Light intensity, temperature of working zones, filters integrity and various other parameters in the LED display, temperature control for heated stage and heated glass.

LCD monitor 15 inch or more size suitably attached to the inner of the work station with power plug for it. The monitor should be low radiation and medical grade. The monitor should support most of the signals coming from modern digital cameras and supports DVI, HDMI as well as analog signals. It should be capable to connect the monitor to your external PC.

Standard table plate working height: 800 -1100mm / adjustable for better comfort during work.

Dimensions: External depth of minimum of 690mm with working depth of minimum 560mm, External width minimum of 1900mm and working width of 1800mm, Working height minimum 630 mm.

Suitable number of electric ports for all instruments such as two microscopes, including monitor with two extra ports.

LCD Display 15 inch. Certified to be used in IVF work Station. Must be fitted with Indian electric system with voltage , frequency and plug.

Must supply servo stabilizer 3 KVA.

The device must comply and certified with the safety requirements of IEC latest editions.

Must provide catalogue number of all parts as above. Must provide breakdown visit within one week from the date of complaint.

Must visit technical visit every 6 months for two years.

Warranty two years from the date of supply.

**Specifications For Stereomicroscope:****Stereomicroscope 1**

Imported stereo microscope with Optics & Zoom Ratio: Imported Research stereozoom microscope with Common Main Objective (CMO) optics & optical zoom of 9:1 or better zoom ratio with total magnification range of 0.7x to 16 x or better with 1X Objective. Microscope should have coarse and fine focusing knobs. Focus drive coarse/fine with min. 300mm focus column.

User should able to get high Resolution & depth of field simultaneously at the eyepieces.

The entire optics of the microscope should be fully apochromatically corrected including the zoom optics.

Resolution: Minimum 250 lines pair /mm or better (with 1X Objective).

Observation tube : Binocular observation tube inclined at 30° to 45° or better with light path distribution of 100:0, 50:50/80:20, 0:100. Interpupillary distance adjustment range of 52 – 76 mm or better.

Eyepiece: 10x paired with Field of view 23 mm or better with diopter adjustment in both eyepieces.

Objective: It should have revolving nosepiece with objective

1. Plan Apochromat 1x objective with minimum working distance of 60 mm and N.A. 0.17 or better.

Camera and software: Scientific grade CMOS Camera: 10 Mpixel HD camera, live image up to 25 fps at full Resolution. Software and Camera have Auto and Manual Exposure settings , Image Calibration tool , Scale Bar (micron Bar) displayed on the live image to indicate image size, Digital Image Acquisition, Thumbnail Gallery, Distance Tools for straightforward image annotation, Interactive Linear Measurement Tools Angle , area , perimeter ) both for Live & Acquired Image, Image Comparison Tools, Pan & Zooming and Image overlay and Time-lapse imaging.

All components of the microscope, camera and software must be from the same manufacturer.

Certification: CE conformity certified and provide certificate in original.

Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Must provide catalogue number of all parts as above.

**Stereomicroscope 2**

Imported stereo microscope with Optics & Zoom Ratio: Imported Research stereozoom microscope with Common Main Objective (CMO) optics & optical zoom of 9:1 or better zoom ratio with total magnification 80 x or better with 1.5/1.6X Objective. Microscope should have coarse and fine focusing knobs. Focus drive coarse/fine with min. 300mm focus column.

User should able to get high Resolution & depth of field simultaneously at the eyepieces.

The entire optics of the microscope should be fully apochromatically corrected including the zoom optics.

Resolution: Minimum 250 lines lines/mm or better (with 1 x objective).

Observation tube: Binocular observation tube inclined at 30° to 45° or better with light path distribution of 100:0, 50:50, 0:100 or suitable. Interpupillary distance adjustment range of 52 – 76 mm or better.

Eyepiece: 10x paired with Field of view 23 mm or better with diopter adjustment in both eyepieces.

Objective: It should have revolving nosepiece with one objective .Plan Apochromat 1.5/1.6x objective with minimum working distance of 60 mm and N.A. 0.17 or better.

Certification: CE conformity certified and provide certificate in original.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: EIGHT PART B**

##### **TECHNICAL SPECIFICATION OF HEADED TROLLEY FOR OVUM PICK UP:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported heated trolley or Z table for adjustable height to be used in doing oocyte retrieval. It has a clean smooth heated surface ideal for any warming blocks and media flasks. Heated table top made up of Steel / HiMacs with minimum space 600x700mm with controllers for Tabletop and have plastic Wheels and steel legs.

Electric Outlet at the back for connecting devices such as Suction Pump directly to the Table

Easy to use , Easy to clean , Easy to move , Should have Ergonomic design

Should have convenient storage compartment under table. Temperature range - Amb to +50°C with Temperature resolution 0.1°C and Temperature difference  $\pm 0.5^\circ\text{C}$ . Low power consumption.

Certification: CE conformity certified and provide certificate in original.

Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: EIGHT PART C**

##### **TECHNICAL SPECIFICATION OF BIO SAFETY CABINET CLASS II TYPE B:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Main body & working zone should be Made up of stainless steel 304 grade (heavy Gauge 14-16G) .Working area (LXWXH) should be approximately 1200 mm width with adjustable front shutter opening. Air flow should be vertical down flow with 100% exhaust. Microprocessor based control system. Noise level should be below 52dBA at operator level. Interlock should be in UV/ Fluorescentlights/ Door alarm should be there for door unsafe position. Motors/blowers should be double shaft, balanced, low vibration with double protection exhaust with HEPA & UV. Minipleat HEPA filter rated for min. 99.97% efficiency at 0.3 micron particle size used for main and exhaust filters. Air flow pattern should be 100% re-circulated through HEPA. Air cleanliness in working area should be meets or exceeds international standards for use in IVF labs. Front door should be made up of polycarbonate /toughened glass (6mm), vertical sliding, adjustable as per requirement. Imported item of reputed international brand should be quoted.Fit to Indian electrical system(220V AC, 50/60 Hz). The cabinet should be based on CE certification (Certificate to be provided).Installation, validation/ performance demonstration should be carried out at site with ultra-modern facilities like velocity test, laser based particle test etc.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: NINE****TECHNICAL SPECIFICATION OF AIR PURIFICATION SYSTEM:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Air purifier system certified for use in IVF Lab. The size of the space that require purification system is 20 Feet X 20 Feet and height 11 Feet. It should be based on plasma technology or better than this with 3 stage Filter which can eliminate all Pathogens, moulds, bacteria, virus (airborne Infection), Particulate Matter Odors, & VOC'S chemical air contaminants (CAC'S) present in the laboratory. Must deactivate all pathogens, HEPA to remove all particulate matter and carbon filter will remove all VOCs. It should be portable with 2-wheeled base or movable platform. Filters: Preferably on pre filter, followed by mandatory One HEPA H13 filter, MGA Grade. (For Particulate Matter), One G4 carbon pleated filter. (For VOCs). Must purify the designated Lab room air at least 25 times per hour or equivalent air changes 25 per hour or more.

Noise Level: 47.9 – 75.1 dBA at unit and 38.5 – 62.9 dBA at 1m away from Unit

Suitable for Indian electric system. Power consumption 500 watt or less. Switched and fused with a grounded, molded power cord.

Certification: CE conformity certified and provide certificate in original.

Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: TEN****TECHNICAL SPECIFICATION OF DENUATION PIPETTE FOR BOVINE OOCYTES:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Suitable denudation pipette for denudation of bovine Oocyte. Micropipetter with comfort grip with sterile tips MEA and LAL tested, suitable for denudation of bovine oocytes after the IVF procedure. The size is 150 to 170 µm of bovine Oocyte. Individually packed tips. Total of 200 tips required.

CE conformity certified and provide certificate in original.

Bidders must submit the sole/exclusive distributor certificate issued by the manufacturer.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

**SCHEDULE: ELEVEN****TECHNICAL SPECIFICATION OF ETHYLENE OXIDE STERILIZER WITH SEALING MACHINE, PACKING MATERIAL & CARTRIDGE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

The equipment to be supplied is for the sterilization of PVC and rubber items and should be fully automatic (washing and cleaning cycles) with provision for the setting up all parameters at the start up or remain programmed as a master cycle to help in configuration of different cycle for different materials for sterilization.

The entire sterilization cycle should be under vacuum to prevent hazards to operating personnel and to ensure removal of all residual gas that may be present in the material.

Minimum 2 cfu capacity, table top model, stainless steel chamber with exhaust pipe, disposable ETO cartilage attachment type with temp. Touch screen Control, LED display & vacuum display.

Sealing machine with Sealing material -Three hundred meter length role of each 2cm, 5cm, 10 cm&15cm diameter and also provide water spray pump and air drier for dry off tubing.

Disposable cartilage of ethylene oxide 100% pure (40 gm) - 100 no. Suitable for above sterilizer.

EO chemical indicators-1000 indicators slips, suitable for above sterilizers.

Fit to Indian Electric System, ISI or equivalent standard.  
 Should be installed at site with demonstration.  
 Should install the system in the Indian electrical system.  
 Warranty: 2 years.  
 Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWELVE PART A**

##### **TECHNICAL SPECIFICATION OF BENCH TOP CENTRIFUGE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Non refrigerated type, Rotor for 5ml with 6 positions or more and 1.5 /2ml with 24 positions with rpm minimum 12000 or more for both the rotors with suitable bio containment lids for both rotors . IEC 61010 ,IVD and European CE (Certified to be provided).Control and Display: For RPM /RCF, Time. LCD Display. Should install the system in the Indian electrical system. Provide 3 KAV or suitable servo stabilizer.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWELVE PART B**

##### **TECHNICAL SPECIFICATION OF BENCH TOP INCUBATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

**Capacity minimum of 20L** with heating and cooling. Interior design : Height minimum of 30 cm. Interior Stainless steel and shelves, Volume 18 L or more ,Temperature uniformity +/- 0.5 ,Minimum two Shelves Temperature +20 to +40 degree c, LCD display for temperature with temperature control, In build light, Transparent glass door, Electricity: Consumption less than 20 W. 230 V /50 HZ European CE (Certified to be provided)

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PART A**

##### **TECHNICAL SPECIFICATION OF DOUBLE DISTILLATION ASSEMBLY:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

It should be all quartz double distillation units with distilled water output capacity 2.5 lit. /hr.

Distillate water should be free from pyrogen and organic matter.

Double glass with temp. auto cut with all tubing and fitting should be provided.

Provide two numbers of 5 L Borosil glass bottle for storage of water and complete installation at the site. Fit to Indian electric system and ISI marked.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PART B**

##### **TECHNICAL SPECIFICATION OF VERTICAL AUTOCLAVE:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

The Unit should comprises of steam jacket electrically heated, inner chamber & lid made of stainless steel, should fit on Indian electrical system, fitted with automatic pressure control switch, safety valve etc. ISI/ BIS certification.

The chamber should be made of heavy gauge, stainless steel, fitted with stainless steel forged ring and forged lid, chamber should be fitted with two safety valve of stainless steel, pressure gauge, water outlet valve and Air inlet valve, stainless steel steam condenser, tube with stainless steel eject valve.

The steam generator should be made out of stainless steel heavy gauge fitted with pressure gauge and water draining valve. The outer cover should be made out of stainless steel, duly insulated with high density mineral wool from the inner chamber and fitted with stable legs. Should have the capacity of dia x depth 300x500 mm and 4 kw. Single phase. Supplier Should provide the calibration certificate. Should supply one complete set of suitable Spare accessories a). Neoprene Rubber joint less gaskets & Heating elements suitable for Vertical Autoclave.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PART C**

##### **TECHNICAL SPECIFICATION OF HOT AIR OVEN:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Hot air oven Approx. 200 lit. Capacity, interior made of stainless steel, 3 chamber, temp. Regulation with fan.

Electronic display, temperature range ambient to 2500C with fluctuation of  $\pm 10C$ ,

Accurate temperature control by Microprocessor base proportional – integral- derivative controller( PID controller) for continuous temperature control for the set temperatures, memory backup for time and temperature in case of electricity failure.

Must have automatic buzzer, display light and alarm for exceeding fix time and temperature.

Memory backup for time and temperature in case of electricity failure.

Fit to Indian electric system and ISI marked.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PART D**

##### **TECHNICAL SPECIFICATION OF FUMIGATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Fumigator 3.0 lit capacity, used for formalin based fumigation of lab.

Should have provision to auto-off at pre-selected time and duration.

Fit to Indian electrical system and ISI marked.



Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PARTS E**

##### **TECHNICAL SPECIFICATION OF VORTEX:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Vortex machine with RPM 0 to 3000. Continuous and pulsing type. Include rubber platform for micro centrifuge tube and for 5ml for vortexing. Electricity : 230 V , 50 Hz. Built in feature for current overload., European CE (Certified to be provided). Fit to Indian electric system and ISI marked.

Should be installed at site.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: THIRTEEN PART F**

##### **TECHNICAL SPECIFICATION OF GARMENT STORAGE CABINET:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Made of stainless steel, working area should be 3'x2'x5'. Should provide down flow clean air to clean room garments. Should have HEPA filter, pre filter, motor blower and fluorescent lighting. Must have U.V. germicidal lighting interlocked with door. Fit to Indian electrical system, ISI marked. Should be installed at site with warranty of min. two years.

Must provide the company name and catalogue no. for quoted item Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FOURTEEN PART A**

##### **TECHNICAL SPECIFICATION OF EMBRYO CUP FILTER WARMER:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Embryo cup/Emcon OPU Tube Warmer that can provide ultra-precise temperature control warming of collection tube 50 ml and embryo cup filter (Em Con ) during and after ovum pick up process. It should have active ultra-precision heating with temperature control range 20° C to 45° C and working at ambient Temperature range -0° C to 45° C . Microprocessor controlled heat pump with Temperature control resolution = 0.0625° C . Temperature LCD display resolution = 0.1° C . Provided with rechargeable battery with integrated power supply .Temperature holding duration 12+ hours. Supplied with suitable USB battery. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FOURTEEN PART B**

##### **TECHNICAL SPECIFICATION OF SLIDE WARMER:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Slide warmer with ultra-precise temperature control of oocytes after the ovum pick up process and during the IVF embryo development process. The temperature can be adjusted at 0.1° C increments and the offset point can be adjusted at 0.01° C increments. Active ultra-precision heating. Temperature control range 20° C to 45° C with Ambient Temperature range 0° C to 45° C Microprocessor controlled heat pump with temperature control resolution = 0.0625° C . Temperature LCD display resolution = 0.1° C Supplied with 110V – 240 V power supply. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FOURTEEN PART C**

##### **TECHNICAL SPECIFICATION OF OOCYTE/ EMBRYO SHIPPING INCUBATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Oocyte /Embryo incubator Ultra precision temperature controlled incubator with ultra-precise Microprocessor controlled heat pump for temperature control of oocytes and embryos during shipping, immature oocytes are matured in maturation media during overnight shipping at temperature control resolution of 0.0625° C at ambient conditions ranging from minus 35° C to +60° C. It should have active ultra-precision simultaneous heating and cooling simultaneously. Temperature control range 30° C to 42° C with ambient Temperature range -35° C to 60° C .Temperature holding duration 96+ hours. The incubator should be tamper resistant key switch with vibration and shock resistant exterior. The incubator should be provided with manufacturer specific cover case for easy carrying from one place to another. Must provide rechargeable battery with integrated power supply and all other all wires and charging system of the Incubator. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FOURTEEN PART D**

##### **TECHNICAL SPECIFICATION OF EMBRYO 0.25 ML STRAW SHIPPING INCUBATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Embryo 0.25 ml Straw Shipping Incubator Ultra precision temperature controlled incubator with ultra-precise Microprocessor controlled heat pump for temperature control of oocytes or embryos in 0.25 ml straws during shipping. The shipping incubator must withstand extreme ambient temperatures during shipping by simultaneous heating and cooling feature. Able to carry more than 200 oocytes or embryo 0.25 ml straws at a time. Temperature control range 20° C to 45° C with ambient Temperature range -20° C to

60° C Temperature control resolution = 0.0625° C . Temperature LCD display resolution = 0.1° C . Rechargeable battery with integrated power supply ( One additional battery to be provided). Temperature holding duration 72+ hours. Vibration and shock resistant exterior. The incubator should be provided with manufacturer specific cover case for easy carrying from one place to another. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FIFTEEN PART A**

##### **TECHNICAL SPECIFICATION OF ACCURATE TEMPERATURE MEASUREMENT PROBE FOR CO2 INCUBATORS:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Highly accurate temperature measurement with specially designed microprobe allows the user to accurately measure the temperature of CO2 incubators (Inside), heated stages and inside media droplets, incubators and refrigerators. The probe can be held in place or fitted to a holder for hands-free measurement. The probe should be insulated against heat from the user for truly accurate measurements. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: FIFTEEN PART B**

##### **TECHNICAL SPECIFICATION OF VOLATILE ORGANIC COMPOUNDS LEVEL MONITOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Volatile Organic Compounds Level Monitor (VOC ) Meters are the most advanced, sensitive and reliable handheld VOC detectors on the market. As Volatile Organic Compounds (VOC) in the lab can have a negative effect on ART results, it is important to be able to monitor these levels.

The RI VOC Meters are capable of detecting contamination at 0.1 parts per million (ppm) levels. 0.1ppm is below an established threshold of embryo toxicity. The VOC Meter is available with or without data-logging. Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected. Should install the system in the Indian electrical system.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: SIXTEEN**

##### **TECHNICAL SPECIFICATION OF EMBRYO/ SEMEN STORAGE TYPE LIQUID NITROGEN VESSEL:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Imported Embryo/ Semen Storage Type Liquid Nitrogen Vessel should be of 46-50 Liter capacity. The static evaporation rate 0.40 Liter per day or less. It should be with an 11 week working duration under normal operation conditions Number of canister -10, Number of 0.5 cc straw holding 3500. Neck opening of minimum 125, Height of container 670 mm so that it can hold the Embryo Cans easily which are kept with double goblet.

Warranty: 2 years.

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### SCHEDULE: SEVENTEEN

##### TECHNICAL SPECIFICATION OF CONSUMABLES ITEMS FOR IVF:

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.

S.N.	Product	Details	Remark
1	15 ml centrifuge tube	Conical, sterile, made up of polypropylene, graduated, RNase/DNase free, Pyrogen/Endotoxin/Cytotoxic free, imported, 50 tube/pack. NUNC make	20 pack
2	50 ml centrifuge tube	Conical, sterile, made up of polypropylene, graduated, RNase/DNase free, Pyrogen/Endotoxin/Cytotoxic free, imported, 25 tube/pack . NUNC make	50 pack
3	35x10 petridish	IVF petridish, Dia 35mm, made by polystyrene, sterile, certified non embryo toxic, surface treated, CE-marked, FDA cleared, MEA-tested, imported, 10/pack. NUNC make	100 pack
4	60 x 15 petridish	IVF petridish, Dia 60mm, made by polystyrene, sterile, certified non embryo toxic, CE-marked, FDA cleared, MEA-tested, imported, 20/pack. NUNC/Corning	25 pack
5	100 x 15 petridish	IVF petridish, Dia 100 mm, made by polystyrene, sterile, certified non embryo toxic, surface treated, CE-marked, FDA cleared, MEA-tested, imported, 10/pack	15 pack
6	4-well dishes	TC- treated 4-well IVF dish, made by polystyrene, sterile, certified non embryotoxic, nonpyrogenic, non cytotoxic, CE-marked to the medical device directive 93/42/EEC, FDA cleared, MEA-tested, imported, individually wrapped . NUNC	2000 no.
7	Pasteur pipette	LDPE, Individual packed ,disposable, sterile, capacity 7 ml, suction volume 3, 5 ml	200 no.
8	Glass Slide & Cover slip for microscope	Standard, 75mm x 25mm with 1 mm thickness or better use for regular semen analysis work, 50/pack, Coverslip 22mm X 22 mm with 0.13-0.17 mm thickness 100/pack	10 pack

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### SCHEDULE: EIGHTEEN

##### TECHNICAL SPECIFICATION OF CONSUMABLES ITEMS FOR IN-VIVO EMBRYO PRODUCTION:

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.

S. No.	Particulars	Specifications	Quantity
1.	Worrlein Flushing Catheter with Rousch end	<b>65 Cm long 18 gauge</b> Rousch Type Flushing Catheter with air pressure control, suitable for flushing of Bovine Embryo from uterine horns, sterilized packing, made of smooth siliconized rubber tubing, non toxic to embryo, Should be Imported.	<b>20</b>
2.	Worrlein Flushing Catheter with Rousch end	<b>75 Cm long 18 gauge</b> Rousch Type Flushing Catheter with air pressure control, suitable for flushing of Bovine Embryo from uterine horns, sterilized packing, made of smooth siliconized rubber tubing, non toxic to embryo, Should be Imported.	<b>30</b>
3.	Emcom Embryo filter with stopper	75 $\mu$ Pore Size Filter to be use for Flushing Bovine Embryos, sterilized packing,Should be Imported.	<b>50</b>
4.	Disposable Y junction tubing	Siliconisedand sterilized Tubing with Rousch and cap end for the flushing of bovine embryos. Singly packed, Fitted with worrlein catheter. Should be Imported.	50
5.	Syringe Filter Holder (0.22 $\mu$ )	Single Use/ Disposable 0.22 $\mu$ Filter, Individual packed sterilized pack, suitable for filter various media used in embryo production, pack of 50, Should be imported.	200 pieces
6.	Disposable Sterilized Square petri dish With grid (100 X 100 mm)	Embryo tested/ Tissue Culture Grade. 100 X 100 mm with Grids for searching the bovine embryos under stereo zoom microscope. Should be Imported.	500 Nos.
7.	Embryo Transfer Straws and ET straw plug.	sterilized, 0.25ml, 133mm, pastel yellow, printed DT, embryo safe, should be imported, 5 per pack. sterile, yellow/white, 48mm, use for plugging and identification of embryo staw, should be imported.	1000 No.
8.	Embryo Transfer Sheath	ET sheath with metal tip (pack of 5), sterile, use with mini straw for transfer of bovine embryos, Should be Imported.	100 Packets
9.	Sanitary Sheath	Sterile, minimum 60 /roll to be used to cover embryo transfer gun/AI gun with Sheath. Each single sheath to be used at a time a length of min. 21 inches. Should be Imported. 80 rolls per packet	10 Packets
10	Tuberculin Syringes	Tuberculin syringes with no rubber, used for handling bovine embryo. Sterilized individual packed. Should be imported.	1000 No.
11	Disposable Leur end Syringe -1ml	For bovine embryo handling, Pryogn and rubber free (pack of 100). Should be imported.	100 packs
12	Capillary with adaptor attached to be fitted directly i the syringes	Should be used For bovine embryo handling, sterilized singly pack, Should be imported.	1000 No.
13	Embryo Holding Container	Aluminum cane for holding embryo goblet 13mm, imported, with plastic goblets 13 mm size	200 Cans and 1000 Goblets
14	Syringe – 1 ml	Disposable syringe, sterile, without latex, embryo safe, leur tip, imported, 100 pcs./ pack	50Packs
15	Syringe – 2ml	Disposable syringe, sterile, without latex, embryo safe, leur tip, imported, 100 pcs../ pack	20 Packs
16	Syringe – 5 ml	Disposable syringe, sterile, without latex, embryo safe, leur tip, imported, 100 pcs./ pack	20 Packs
17	Syringe – 10ml	Disposable syringe, sterile, without latex, embryo safe, leur tip, imported, 100 pcs./ pack	20 Packs
18	Syringe - 20 ml	Disposable syringe, sterile, without latex, leur tip, imported, 100 pcs./ pack	20 Packs
19	Syringe - 50ml	Disposable, sterile, with rubber ring at inner end of adopter, solution should not revert back, 50 pcs./ pack	20 Packs

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.

**SCHEDULE: NINETEEN**

**TECHNICAL SPECIFICATION OF MEDIA AND CHEMICAL FOR BOVINE ET AND IVF:**

[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]

Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.

S. No.	Media Type	Specifications	Quantity	Company Name	Catalogue No.
1	Ovum pick-up medium	Must be Serum Free and suitable for performing ovum pick-up and embryo flushing Enriched with amino acids to prevent amino acid depletion of oocytes and embryos Supplemented with 20IU/ML heparin and gentamycin. Must be certified for Bovine use.	5000 ml.		
2	Oocyte maturation medium	Must be Serum Free .Suitable for the <i>in vitro</i> maturation of bovine oocytes in the laboratory Supplemented with low glucose, gonadotrophic hormones and gentamycin. Must be certified for Bovine use.	200 ml.		
3	Oocyte maturation medium HEPES-buffered	Must be Serum Free .Suitable for the <i>in vitro</i> maturation of oocytes outside the incubator. It should allow the maturation of oocytes away from the laboratory and during transportation without an incubator. Supplemented with low glucose, gonadotrophic hormones and gentamycin. Must be certified for Bovine use.	200 ml.		
4	Oocyte and embryo wash medium HEPES-buffered	Must be Serum Free .Suitable for the handling and washing of oocytes and embryos outside of the incubator Enriched with vitamins and amino acids to prevent amino acid depletion of oocytes Supplemented with gentamycin. Must be certified for Bovine use	1000 ml.		
5	Semen preparation medium	Must be serum free. Suitable for the washing of semen prior to <i>in vitro</i> fertilization Non-capacitating formula conserves spermatozoa energy prior to introduction to the fertilization medium. Avoids the toxicity of traditional gradients; supports a gentler centrifugation process. Must be certified for Bovine use	200 ml.		
6	Fertilization medium	Must be Serum Free .Suitable for the <i>in vitro</i> fertilisation of matured oocytes Supplemented with heparin and gentamycin Enriched with an optimised PHE solution for sperm capacitation. . Must be certified for Bovine use	200 ml.		
7	Embryo culture medium	Must be Serum Free .Suitable for the <i>in vitro</i> culture of inseminated oocytes Non-sequential, single-step system. Should not require a change of media Supplemented with BSA, vitamins, amino acids, anti-oxidants and gentamycin Enriched with hyaluronate for increased cryo-survivability. Must be certified for Bovine use.	200 ml.		
8	Embryo transfer & transportation medium	Must be Serum Free .Suitable for Supports embryo development from day 5 to the blastocyst stage, allowing for transportation of developing embryos for up to 48 hours outside the incubator Suitable for both <i>in vivo</i> and <i>in vitro</i> derived embryos Supplemented with proteins, sodium bicarbonate and gentamycin. Must be certified for Bovine use.	100 ml.		
9	Oil	Highly refined, pharmaceutical grade liquid paraffin (light mineral) oil Pre-washed twice with ultra-pure water and sterilised with a 0.2µm filter. Must be sterile. Must be approved for density, viscosity, endotoxins and peroxide value (POV), as well as MEA and BEA tests.	100 ml.		

**\*Quantity may vary. The Actual quantity will be confirmed after the rate approval.**

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWENTY**

##### **TECHNICAL SPECIFICATION OF DISINFECTANTS & DISPOSABLES:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

<b>S. No.</b>	<b>Product</b>	<b>Details</b>	<b>Remark</b>
1	Disinfectant for IVF lab floor	Room floor disinfection , should be Non-toxic with no alcohol and no odour, MEA tested	20 Lit.
2	Disinfectant for Metallic surfaces	Non-toxic, should be Non-toxic with no alcohol and no odour, should be used for cleaning of metal surface such as inner chamber of incubator, table top of flow hood, surface and also used for hand, MEA tested, packing 500 ml or 1000 ml for hand washing and 2 lit. pack for metal surface and lab flour.	10 Lit.
3	Hand Disinfectant	Hypoclorous acid based MEA tested, for hand disinfection use. 100 ml pack or 1000 ml pack	20 Lit
4	Disposable gloves	Medium sized, made by synthetic nitrile polymer, silicone free, contains no natural rubber latex, powder free, virus protection, CE certified, pack of 100	10 Packs
5	Face Mask	Disposable, branded, singly sterilized pack, pack of 100	20 Packs
6	Head Cap	Disposable, branded, singly sterilized pack, pack of 100	20 Packs
7	Shoe Cover	Disposable, branded, singly sterilized pack, pack of 100	50 Packs
8	Disposable Apron	Singly, Sterilized. Pack of 100	50 Packs

Must provide catalogue number of all parts as above.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWENTY ONE PART A**

##### **TECHNICAL SPECIFICATION OF 20 KVA SILENT GENERATOR:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Diesel generator 20 KVA Silent, 3 cylinder, water cooling system , Single phase. Auto start system. Suitable Earthing GI type and connection to the panel to be done. Quote for only one model in accordance to the specification desired, technical bid with multiple option shall be summarily rejected.

Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**

#### **SCHEDULE: TWENTY ONE PART B**

##### **TECHNICAL SPECIFICATION OF 3 KVA ONLINE UPS WITH BATTERY FOR 2 HOURS BACK UP:**

**[N.B. Equipment under this schedule should conform to BIS/ ISO Certification Standards, a proof of which shall have to be submitted along with the Technical Bid]**

**Technical Literature, brochures and all other relevant information supporting the bid must accompany the Technical Bid.**

Single phase, IGBT based, online 3KVA UPS system with battery backup for 2 hours at full capacity .

Should have Input 220/230V AC single phase frequency 50Hz, Output 3.0 KVA, 220/230V AC single phase frequency 50Hz, three wires.

IGBT rectifier with LCD Display to monitor electrical parameter.  
UPS should be reputed brand make and should have static and maintenance bypass with static switch.  
Suitable for ambient condition temp. 0-50°C, relative Humidity 95%, less noisy (<55dB)  
Battery should be sealed maintenance free and come in rack for close housing in suitable lockers, all details should be specified for battery (Brand, quantity, A-H rating). It should be a reputed brand like exide, panasonic, etc.  
All the related indicators and meter should be provide for UPS and battery.  
Battery has been desired to switch automatically to the battery mode 'ON' at the time of power cuts, eco-friendly, Fast battery charging, short circuit MCB protection.  
Low operating and maintenance cost. 3 Years Warranty.  
All wires, tubing and connection accessories provided along with complete installation in laboratory.  
Should be suitable for lab equipment's. All the related functional test certificates should be provided.  
Should be complete installation at the site with warranty of min. three years.  
Must provide the company name and catalogue no. for quoted item  
Quote for only one model in accordance to the specification desired, technical bid with multiple option shall be summarily rejected.  
Should install the system in the existing electrical system.  
Warranty: 2 years.

**Address of Consignee:** Deputy Manager (EBRTC)/ In-Charge, IVF, Embryo Bio Technology Research and Training Center, Animal Breeding Farm, Kalsi, Dehradun, Uttarakhand

**Deliver Schedule:** Within One month from the date of Order.

**Quote for only one model in accordance to the specification desired, technical bid with multiple options shall be summarily rejected.**

**Note: Quoted Rates will be valid for One Year Duration and ULDB will place Order after receipt of fund from GoI.**





**SECTION VII****DECLARATION****(To Be submitted in Original in ₹100.00 Non judicial stamp paper)**

Date: .....

**Bid Reference No.: 4857/ULDB/PROC./Vol.XV/2018-19****Dated: 08 March 2019**

To:

Chief Executive Officer  
 Uttarakhand Livestock Development Board  
 Pashudhan Bhawan, Ist Floor,  
 P.O. Mothrowala,  
 Dehardun – 248001, Uttarakhand, India

Sir,

I Having examined the Bidding Document Bid Reference No.: **4857/ULDB/PROC./ Vol.XV/2018-19 Dated 08 March 2019** including Addenda Nos. ....[insert numbers], the receipt of which is hereby duly acknowledged, we the undersigned, will abide all the terms and conditions as specified in the bidding document and offer to supply and deliver.....  
*(Description of Goods and Services)* in conformity with the said bidding document.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the bidding document.

If our bid is accepted, we will submit DD/ FDR/ Banker's Cheque / Bank Guarantee/ Pay Order of a bank in a sum equivalent to ..... percent of the total Contract Price for the due performance of the Contract, in the form as prescribed by the Purchaser.

We agree to abide by this bid for the Bid validity period specified in ITB Clause 14 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India.

We understand that you are not bound to accept the lowest or any bid you may receive.

We clarify/confirm that we comply with the eligibility requirements as per the bidding document.

We, as an authorized representative(s) of company, declare that presently our Company/ firm has an unblemished record and is not declared ineligible for corrupt & fraudulent practices, is not blacklisted either indefinitely or for a particular period of time, nor has had work withdrawn, by any State/ Central Government/ PSU.

Dated this ..... day of.....20.....

Name &amp; Seal of Signing Authority .....

*(signature)**(in the capacity of)*

Duly authorized to sign Bid for and on behalf of .....

**SECTION – VIII****BID SECURITY FORM**

(Proforma of Bid Security to be submitted in ₹100.00 Non judicial stamp paper)

Where .....<sup>1</sup>(hereinafter called "the Bidder") has submitted its bid dated ..... (date of submission of bid) for the supply of ..... (name and/or description of the goods) (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE ..... (name of bank) of ..... (name of country), having our registered office at ..... (address of bank) (hereinafter called "the Bank"), are bound unto..... (name of Purchaser) (hereinafter called "the Purchaser") in the sum of ..... for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ..... day of .....20.....

THE CONDITIONS of this obligation are:

1. If the Bidder
  - (a) withdraws its Bid during the period of bid validity specified by the Bidder on the Declaration ; or
  - (b) does not accept the correction of errors in accordance with the ITB; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
  - (a) fails or refuses to execute the Contract Form if required; or
  - (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

we undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including Ninety Days (90) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....  
(Signature of the Bank)

1  
Name of Bidder

**SECTION -IX****CONTRACT FORM****(Proforma of Agreement to be signed in ₹100.00 Non judicial stamp paper between  
Uttarakhand Livestock Development Board and the successful bidder)**

**THIS AGREEMENT** made the .....day of....., 20.... Between  
..... (*Name of purchaser*) of ..... (*Country of Purchaser*) (hereinafter "the Purchaser") of  
the one part and .....(*Name of Supplier*) of .....(*City and Country of  
Supplier*) (hereinafter called "the Supplier") of the other part :

**WHEREAS** the Purchaser is desirous that certain Goods and ancillary services viz., .....(*Brief Description of Goods  
and Services*) and has accepted a bid by the Supplier for the supply of those goods.

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
  - (a) the Purchaser's Notification of Award;
  - (b) the Schedule of Requirement;
  - (c) the Technical Specification;
  - (d) the General Conditions of Contract and
  - (e) the Special Conditions of Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

**IN WITNESS** where of the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

**Signed, Sealed**For and on behalf of Purchaser (one part)Supplier (other part)**in the presence of**

1.

1.

2.

2.

**on behalf of one part****On behalf of other part**

**SECTION - X**

**PERFORMANCE SECURITY FORM FOR BANK GUARANTEE**

To: \_\_\_\_\_ (Name of Purchaser)

**WHEREAS** ..... (Name of Supplier)  
hereinafter called "the Supplier" has undertaken, in pursuance of Contract  
No.....dated,.....20..... to supply .....  
.....(Description of Goods and Services) hereinafter called "the Contract".

**AND WHEREAS** it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:  
**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of.....(Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of .....(Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid unit the .....day of.....20.....

Signature and Seal of Guarantors

.....  
.....

Date.....20.....

Address: .....  
.....  
.....

**SECTION XI**

**PERFORMANCE STATEMENT**

**Proforma for Performance Statement (for a period of last two to three year)**

**Bid Reference No.: 4857/ULDB/PROC./Vol.XV/2018-19**

**Dated: 08 March 2019**

**Date of opening of Technical Bid ..... Time of Opening .....**

**Name of the Firm .....**

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of order	Value of order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment/ Services been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)
				As per contract	Actual		

**Signature and seal of the Bidder**

**SECTION – XII**

**MANUFACTURERS' AUTHORIZATION FORM**

Letter No..... dated .....

To

.....  
.....  
.....

Dear Sir:

**Bid Reference No.: 4857/ULDB/PROC./Vol.XV/2018-19      Dated: 08 March 2019**

We ..... who are established and reputable manufacturers/ producers of ..... (*name and description of goods offered*) having factories at ..... (*address of factory*) do hereby authorize M/s. .... (Name and address of Agent) to submit a bid, and sign the contract with you for the goods manufactured/ produced by us against the above IFB.

No company or firm or individual other than M/s. .... are authorized to bid, and conclude the contract for the above goods manufactured/ produced by us, against this specific IFB.

We hereby extend our full guarantee and warranty as Clause 15 of the General Conditions of Contract and Clause 10 of the Special Conditions of Contract for the goods and services offered for supply by the above firm against this IFB.

Yours faithfully,

(Signature)  
(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacture. It should be included by the Bidder in its bid.

## SECTION XIII

**PROFORMA FOR EQUIPMENT AND QUALITY CONTROL EMPLOYED BY THE MANUFACTURER/  
PRODUCER**

Bid Reference No.: 4857/ULDB/PROC./Vol.XV/2018-19

Dated: 08 March 2019

Date of Opening.....

Name of Bidder: .....

(Note: All details should relate to the manufacturer for the items offered for supply)

1. Name & full address of the manufacturer
2.
  - (a) Telephone & Fax No
  - (b) Telex No. Office/Factory/Works
  - (c) Telegraphic address: Office/Factory/Works
3. Location of the manufacturing/ production factory
4. Details of Industrial License, wherever required as per statutory regulations.
5. Details of important Plant & Machinery functioning in each dept. (Monographs & description pamphlets be supplied if available).
6. Details of the process of manufacture in the factory.
7. Details & stocks of raw materials held.
8. Production capacity of item(s) quoted for, with the existing Plant & Machinery
  - 8.1 Normal
  - 8.2 Maximum
9. Details of arrangement for quality control of products such as laboratory, testing equipment etc.
10. Details of staff
  - 10.1 Details of technical supervisory staff in charge of production & quality control.
  - 10.2 Skilled labour employed
  - 10.3 Unskilled labour employed
  - 10.4 Maximum No. of workers (skilled & unskilled ) employed on any day during the 18 months preceding the date of Tender.
11. Whether goods are tested to any standard specification? If so, copies of original test certificates should be submitted in triplicate.
12. Are you registered with the Directorate General of Supplies and Disposals, New Delhi, India?  
If so, furnish full particulars of registration, period of currency etc. with a copy of the certificate of registration.

(Signature)  
(Name of manufacturers/ producer)



## SECTION XIV

## CHECKLIST FOR TECHNICAL BID SUBMISSION

S. No.	Particulars	Scanned Copy of Document Attached (Yes/No)
1	Proof of Cost of Bid Document	
2	Proof of Bid Security	
3	Proof of Declaration	
4	Bidder's Profile along with proof of certification having details of registration; PAN No; GSTIN No. etc.	
5	Summary of Latest Audited Balance Sheet	
6	Documentary proof of BIS &/or ISO certification or any other relevant document	
7	Technical Details of the items conforming to the bid along with other relevant documents	
8	Experience of the bidder conforming to the qualification criteria as specified in Section VI A of bid document & other relevant documents establishing bidders eligibility & qualification	