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Odisha Livestock Resources Development Society (OLRDS)  
OBPI Campus  
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**NATIONAL COMPETITIVE BIDDING FOR**  
**THE SUPPLY OF LABORATORY EQUIPMENTS**

BID REFERENCE : 01/18-19

DATE OF COMMENCEMENT OF  
SALE OF BIDDING DOCUMENT : 15 .11.2018

LAST DATE FOR SALE OF  
BIDDING DOCUMENT : 14 .12.2018

LAST DATE AND TIME FOR  
RECEIPT OF BIDS : 15.12.2018 by 3.00 PM

PRE BID MEETING : 26 .11.2018 at 11.00 AM  
O/ O:- Joint Director,  
Frozen Semen Bank,  
At-Khapuria, PO: Madhupatana  
Cuttack

TIME AND DATE OF OPENING  
OF BIDS : 15.12.2018 AT 03.20 PM

PLACE OF OPENING OF BIDS : Office of the Joint Director, Frozen  
Semen Bank, Khapuria, Cuttack

ADDRESS FOR COMMUNICATION :

The Chief Executive Officer  
Odisha Livestock Resources  
Development Society (OLRDS)  
C/o:- Joint Director,  
Frozen Semen Bank  
At-Khapuria  
PO:- Madhupatana , Cuttack  
Dist :- Cuttack  
State :- Odisha, India  
PIN :- 753010  
Email.- [ndpolrds@gmail.com](mailto:ndpolrds@gmail.com)

**SECTION I: INVITATION FOR BIDS (IFB)**

**NATIONAL COMPETITIVE BIDDING FOR  
THE SUPPLY OF LABORATORY EQUIPMENTS**

**INVITATION FOR BIDS (IFB)**

Date : 15 -11-2018

Credit No. : 5074 - IN

IFB No. : 01/18-19

1. The Government of India has received a Credit (Credit 5074-IN) from the International Development Association for Reconstruction and Development in various currencies towards the cost of National Dairy Plan – I. Odisha Livestock Resources Development Society (OLRDS), Bhubaneswar, an EIA of the project and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for which this Invitation for Bids is issued.
2. The Chief Executive Officer, Odisha Livestock Resources Development Society, Bhubaneswar, herein after known as CEO, OLRDS now invites sealed bids from eligible bidders for supply of Laboratory Equipments.
3. Bidding will be conducted through the National Competitive Bidding (NCB) procedures agreed with World Bank. The provisions in the Instructions to Bidders and in the General Conditions of contract are based on the provisions of the World Bank Standard Bidding Document - Procurement of Goods.
4. Interested eligible Bidders may obtain any information by contacting through e- mail [ndpolrds@gmail.com](mailto:ndpolrds@gmail.com) or, visiting the office of the Joint Director, Frozen Semen Bank, Khapuria, Cuttack during office hour.
5. A complete set of bidding documents may be downloaded by any interested eligible bidder from [www. olrds.com](http://www.olrds.com) / [www. orissaaahvs.com](http://www.orissaaahvs.com) / [www. khordha.nic.in](http://www.khordha.nic.in). The bidding documents while submitting must be accompanied with a non-refundable Demand Draft of **Rs. 1120.00 (Rupees one thousand one hundred twenty only)** in favour of the Chief Executive Officer, OLRDS, Bhubaneswar, payable at Bhubaneswar.

*Note: Bidders should regularly visit above mentioned website for any update pertaining to this tender.*

6. The cost of bidding document is
  - (a) Price of bidding document (non-refundable) :Rs. 1000.00
  - (b) GST @ 12% : Rs. 120.00
  - (c) Total : **Rs. 1120.00**
  - (d) Date of commencement of sale of bidding document : 15 -11 2018

- (e) Last date for sale of bidding document : 14-12-2018
- (f) Last date and time for receipt of bids : 15-12-2018 by 3.00 PM
- (g) Time and date of opening of bids : 15-12-2018 AT 3.20 PM
- (h) Place of opening of bids: Office of Joint Director, Frozen Semen Bank, Khapuria, Cuttack

- (i) Address for communication :
- The Chief Executive Officer  
Odisha Livestock Resources Development Society  
(OLRDS)  
C/o:- Joint Director, Frozen Semen Bank  
At-Khapuria  
PO:- Madhupatana  
Cuttack  
Dist :- Cuttack  
State :- Odisha, India  
PIN :- 753010  
ndpolrds@gmail.com

7. All bids must be accompanied by a bid security (**Earnest Money Deposit – EMD**) as **specified against each item** in the bid document and must be deposited while submitting with the tender documents to the above office at the date and time indicated above. Electronic bidding will not be permitted. Bid received after schedule date and time will be rejected.
8. Bids will be opened in the presence of bidder, or their authorized representative, who choose to attend on the specified date and time.
9. 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.

## **TABLE OF CONTENT**

<b>PART 1 – BIDDING PROCEDURES .....</b>	<b>1</b>
<b>SECTION I - INSTRUCTIONS TO BIDDERS [ITB] .....</b>	<b>02-28</b>
<b>SECTION II - BIDDING DATA SHEET .....</b>	<b>29-33</b>
<b>SECTION III - EVALUATION AND QUALIFICATION CRITERIA .....</b>	<b>34-37</b>
<b>SECTION IV – BIDDING FORMS .....</b>	<b>38-49</b>
<b>SECTION V. – ELIGIBLE COUNTRIES .....</b>	<b>50</b>
<b>PART 2 - SUPPLY REQUIREMENTS .....</b>	<b>51</b>
<b>SECTION VI – SCHEDULE OF REQUIREMENTS .....</b>	<b>52-94</b>
<b>PART 3 – CONTRACT .....</b>	<b>95</b>
<b>SECTION VII – GENERAL CONDITIONS OF CONTRACT .....</b>	<b>96-115</b>
<b>SECTION VIII. SPECIAL CONDITIONS OF CONTRACT .....</b>	<b>116-124</b>
<b>SECTION IX – CONTRACT FORMS .....</b>	<b>125-130</b>

**1. PART 1 – BIDDING PROCEDURES**

**SECTION I - INSTRUCTIONS TO BIDDERS [ITB]**

## **Section I. Instructions to Bidders**

### **Table of Contents**

#### **A. GENERAL**

1.	SCOPE OF BID.....	5
2.	SOURCE OF FUNDS .....	5
3.	FRAUD AND CORRUPTION .....	6
4.	ELIGIBLE BIDDERS .....	7
5.	ELIGIBLE GOODS AND RELATED SERVICES .....	8

#### **B. CONTENTS OF BIDDING DOCUMENTS**

6.	SECTIONS OF BIDDING DOCUMENTS .....	9
7.	CLARIFICATION OF BIDDING DOCUMENTS .....	10
8.	AMENDMENT OF BIDDING DOCUMENTS.....	10

#### **C. PREPARATION OF BIDS**

9.	COST OF BIDDING .....	10
10.	LANGUAGE OF BID.....	10
11.	DOCUMENTS COMPRISING THE BID .....	11
12.	BID SUBMISSION FORM AND PRICE SCHEDULES .....	12
13.	ALTERNATIVE BIDS .....	12
14.	BID PRICES AND DISCOUNTS.....	12
15.	CURRENCIES OF BID.....	14
16.	DOCUMENTS ESTABLISHING THE ELIGIBILITY OF THE BIDDER .....	14
17.	DOCUMENTS ESTABLISHING THE ELIGIBILITY OF THE GOODS AND RELATED SERVICES .....	14
18.	DOCUMENTS ESTABLISHING THE CONFORMITY OF THE GOODS AND RELATED SERVICES.....	14
19.	DOCUMENTS ESTABLISHING THE QUALIFICATIONS OF THE BIDDER.....	15
20.	PERIOD OF VALIDITY OF BIDS .....	15
21.	BID SECURITY .....	16
22.	FORMAT AND SIGNING OF BID .....	18

#### **D. SUBMISSION AND OPENING OF BIDS**

23.	SUBMISSION, SEALING AND MARKING OF BIDS .....	18
24.	DEADLINE FOR SUBMISSION OF BIDS .....	19
25.	LATE BIDS .....	19
26.	WITHDRAWAL, SUBSTITUTION, AND MODIFICATION OF BIDS .....	19
27.	BID OPENING .....	20

#### **E. EVALUATION AND COMPARISON OF BIDS**

28.	CONFIDENTIALITY .....	21
29.	CLARIFICATION OF BIDS .....	22

30.	RESPONSIVENESS OF BIDS .....	22
31.	NONCONFORMITIES, ERRORS, AND OMISSIONS .....	22
32.	PRELIMINARY EXAMINATION OF BIDS .....	23
33.	EXAMINATION OF TERMS AND CONDITIONS; TECHNICAL EVALUATION .....	24
34.	CONVERSION TO SINGLE CURRENCY- NOT USED.....	24
35.	DOMESTIC PREFERENCE - NOT USED .....	24
36.	EVALUATION OF BIDS .....	24
37.	COMPARISON OF BIDS.....	26
38.	POSTQUALIFICATION OF THE BIDDER.....	26
39.	PURCHASER'S RIGHT TO ACCEPT ANY BID, AND TO REJECT ANY OR ALL BIDS .....	26

**F. AWARD OF CONTRACT**

40.	AWARD CRITERIA.....	26
41.	PURCHASER'S RIGHT TO VARY QUANTITIES AT TIME OF AWARD .....	26
42.	NOTIFICATION OF AWARD .....	26
43.	SIGNING OF CONTRACT.....	27
44.	PERFORMANCE SECURITY .....	27

## Section I. Instructions to Bidders

### A. General

- 1. Scope of Bid**
- 1.1 The Purchaser **indicated in the Bidding Data Sheet (BDS)**, issues these Bidding Documents for the supply of Goods and Related Services incidental thereto as specified in Section VI, Schedule of Requirements. The name and identification number of this National Competitive Bidding (NCB) procurement are **specified in the BDS**. The name, identification, and number of lots of are **provided in the BDS**.
- 1.2 Throughout these Bidding Documents:
- (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, telex) with proof of receipt;
  - (b) if the context so requires, “singular” means “plural” and vice versa; and
  - (c) “day” means calendar day.
- 2. Source of Funds**
- 2.1 The Government of India (hereinafter called “Borrower”) **specified in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) toward the cost of the project **named in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which these Bidding Documents are issued.
- 2.2 Payments by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the financing agreement between the Borrower and the Bank (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. The Loan Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of

the Bank, is prohibited by decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.

### **3. Fraud and Corruption**

- 3.1 It is the Bank's policy to require that Borrowers (including beneficiaries of Bank loans), bidders, suppliers, contractors and their agents (whether declared or not), sub-contractors, sub-consultants, service providers or suppliers, and any personnel thereof, observe the highest standard of ethics during the procurement and execution of Bank-financed contracts. In pursuance of this policy, the Bank:
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
    - (i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party ;
    - (ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation ;
    - (iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party ;
    - (iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party ;
    - (v) "obstructive practice" is
  - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or

- (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 1.16(e) below.
  - (b) will reject a proposal for award if it determines that the bidder recommended for award, or any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;
  - (c) will declare mis-procurement and cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive or obstructive practices during the procurement or the implementation of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
  - (d) will sanction a firm or individual, at any time, in accordance with prevailing Bank's sanctions procedures , including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated sub-contractor, consultant, supplier or services provider of an otherwise eligible firm being awarded a Bank-financed contract;
- 3.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 35.1 (a) (iii) of the General Conditions of Contract.

**4. Eligible Bidders**

- 4.1 A Bidder, and all parties constituting the Bidder, may have the nationality of any country, subject to the restrictions specified in Section V, Eligible Countries. A Bidder shall be deemed to have the nationality of a country if the Bidder is a citizen or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including Related Services.

- 4.2 A Bidder shall not have a conflict of interest. All bidders found to have conflict of interest shall be disqualified. Bidders may be considered to have a conflict of interest with one or more parties in this bidding process, if they:
- (a) are or have been associated in the past, 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 these Bidding Documents ; or
  - (b) submit more than one bid in this bidding process, except for alternative offers permitted under ITB Clause 13. However, this does not limit the participation of subcontractors in more than one bid;
- 4.3 A Bidder that is under a declaration of ineligibility by the Bank in accordance with ITB Clause 3, at the date of contract award, shall be disqualified. The list of debarred firms is available at the electronic address specified in the **BDS**.
- 4.4 A firm that has been determined to be ineligible by the Bank in relation to the Bank Guidelines On Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants shall be not be eligible to be awarded a contract.
- 4.5 Government-owned enterprises in the Borrower's Country shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser or Borrower or Sub-Borrower.
- 4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

**5. Eligible Goods and Related Services**

- 5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.
- 5.2 For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and

industrial plants; and “related services” includes services such as insurance, installation, training, and initial maintenance.

- 5.3 The term “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

### **B. Contents of Bidding Documents**

#### **6. Sections of Bidding Documents**

- 6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addendum issued in accordance with ITB Clause 8.

#### **PART 1 Bidding Procedures**

- Section I. Instructions to Bidders (ITB)
- Section II. Bidding Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria
- Section IV. Bidding Forms
- Section V. Eligible Countries

#### **PART 2 Supply Requirements**

- Section VI. Schedule of Requirements

#### **PART 3 Contract**

- Section VII. General Conditions of Contract (GCC)
- Section VIII. Special Conditions of Contract (SCC)
- Section IX. Contract Forms

- 6.2 The Invitation for Bids issued by the Purchaser is not part of the Bidding Documents.
- 6.3 The Purchaser is not responsible for the completeness of the Bidding Documents and their addendum, if they were not obtained directly from the Purchaser.

6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information or documentation required by the Bidding Documents may result in the rejection of the bid.

**7. Clarification of Bidding Documents**

7.1 A prospective Bidder requiring any clarification of the Bidding Documents shall contact the Purchaser in writing at the Purchaser's address **specified in the BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received no later than fifteen (15) days prior to the deadline for submission of bids. The Purchaser shall forward copies of its response to all those who have acquired the Bidding Documents directly from it, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB Clause 8 and ITB Sub-Clause 24.2.

**8. Amendment of Bidding Documents**

8.1 At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Documents by issuing addendum.

8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents directly from the Purchaser.

8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to ITB Sub-Clause 24.2

**C. Preparation of Bids**

**9. Cost of Bidding**

9.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

**10. Language of Bid**

10.1 The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language.

Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into English language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

**11. Documents  
Comprising  
the Bid**

11.1 The Bid shall comprise the following:

- (a) Bid Submission Form and the applicable Price Schedules, in accordance with ITB Clauses 12, 14, and 15;
- (b) Bid Security, in accordance with ITB Clause 21, if required;
- (c) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB Clause 22;
- (d) documentary evidence in accordance with ITB Clause 16 establishing the Bidder's eligibility to bid;
- (e) documentary evidence in accordance with ITB Clause 17, that the Goods and Related Services to be supplied by the Bidder are of eligible origin;
- (f) documentary evidence in accordance with ITB Clauses 18 and 30, that the Goods and Related Services conform to the Bidding Documents;
- (g) documentary evidence in accordance with ITB Clause 19 establishing the Bidder's qualifications to perform the contract if its bid is accepted; and
- (h) Manufacturer's authorization form.
- (i) any other document **required in the BDS.**

**12. Bid  
Submission  
Form and  
Price  
Schedules**

12.1 The Bidder shall submit the Bid Submission Form using the form furnished in Section IV, Bidding Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

**13. Alternative Bids**

13.1 Unless otherwise **specified in the BDS**, alternative bids shall not be considered.

**14. Bid Prices and Discounts**

14.1 The prices and discounts quoted by the Bidder in the Bid Submission Form and in the Price Schedules shall conform to the requirements specified below.

14.2 All lots and items must be listed and priced separately in the Price Schedules.

14.3 The price to be quoted in the Bid Submission Form shall be the total price of the bid, excluding any discounts offered.

14.4 The Bidder shall quote any unconditional discounts and indicate the method for their application in the Bid Submission Form.

14.5 The terms EXW and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by The International Chamber of Commerce, as specified in the **BDS**.

14.6 Prices shall be quoted as specified in the Price Schedule included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V Eligible Countries. Prices shall be entered in the following manner:

(a) **For Goods:**

(i) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all duties (customs, excise etc.) and sales and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

(ii) GST which will be payable on the Goods if the contract is awarded to the Bidder; and

(iii) the price for inland transportation, insurance, and

other local services required to convey the Goods to their final destination (Project Site) specified in the **BDS**.

- (b) **for the Related Services**, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
  - (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).
  - (c) bidders may like to ascertain availability of excise duty exemption benefits, available for contracts financed under World Bank Credits/ Loans. They are solely responsible for obtaining such benefits, which they have considered in their bid and in case of failure to receive such benefits for reasons whatsoever, the Purchaser will not compensate the bidder.

Where the bidder has quoted taking into account such benefits, he must give all information required for issue of necessary Certificates in terms of the Central Excise Notification -108/95 along with his bid in form at S. No. 8 of Section VI. Where the Purchaser issues such Certificates, Excise Duty will not be reimbursed separately.

14.7 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise specified in the **BDS**. A Bid submitted with an adjustable price quotation shall be treated as non responsive and shall be rejected, pursuant to ITB Clause 30. However, if in accordance with the **BDS**, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

14.8 If so indicated in ITB Sub-Clause 1.1, bids are being invited for individual contracts (lots) or for any combination of contracts (packages). Prices quoted shall correspond to 100 % of the items specified for each lot and to 100% of the quantities specified for each item

of a lot. Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify the applicable price reduction in accordance with ITB Sub-Clause 14.4 provided the bids for all lots are submitted and opened at the same time.

- 15. Currencies of Bid** 15.1 The Bidder shall quote in Indian Rupees only.
- 16. Documents Establishing the Eligibility of the Bidder** 16.1 To establish their eligibility in accordance with ITB Clause 4, Bidders shall complete the Bid Submission Form, included in Section IV, Bidding Forms.
- 17. Documents Establishing the Eligibility of the Goods and Related Services** 17.1 To establish the eligibility of the Goods and Related Services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 18. Documents Establishing the Conformity of the Goods and Related Services** 18.1 To establish the conformity of the Goods and Related Services to the Bidding Documents, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VI, Schedule of Requirements.
- 18.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Schedule of Requirements.
- 18.3 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the BDS** following commencement of the use of the goods by the Purchaser.
- 18.4 Standards for workmanship, process, material, and

equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Schedule of Requirements.

**19. Documents  
Establishing  
the  
Qualifications  
of the  
Bidder**

19.1 The documentary evidence of the Bidder's qualifications to perform the contract if its bid is accepted shall establish to the Purchaser's satisfaction:

(a) (i) that, if **required in the BDS**, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in the Purchaser's Country;

(ii) Supplies for any particular item in each schedule of the bid should be from one manufacturer only. Bids from agents offering supplies from different manufacturers for the same item of the schedule in the bid will be treated as non-responsive.

(b) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

(c) Bids from Joint Ventures are not acceptable

**20. Period of  
Validity of  
Bids**

20.1 Bids shall remain valid for the period **specified in the BDS** after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period shall be rejected by the Purchaser as non responsive.

20.2 In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB Clause 21, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be

required or permitted to modify its bid, except as provided in ITB Sub-Clause 20.3.

20.3 In the case of fixed price contracts, if the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial bid validity, the Contract price shall be adjusted as by the factor ----<sup>1</sup>[Value of factor stated in BDS] for each week or part of week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful bidder. Bid evaluation shall be based on the Bid Price without taking into consideration the above correction.

## **21. Bid Security**

21.1 The Bidder shall furnish as part of its bid, a Bid Security, if required, as **specified in the BDS**.

21.2 The Bid Security shall be in the amount specified in the BDS and denominated in the currency of the Purchaser's Country or a freely convertible currency, and shall:

- (a) at the bidder's option, be in the form of either a certified check, demand draft, letter of credit, or a bank guarantee from a Nationalized/Scheduled Bank in India.
- (b) be substantially in accordance with one of the forms of Bid Security included in Section IV, Bidding Forms, or other form approved by the Purchaser prior to bid submission;
- (c) be payable promptly upon written demand by the Purchaser in case the conditions listed in ITB Clause 21.5 are invoked;
- (d) be submitted in its original form; copies will not be accepted;
- (e) remain valid for a period of 45 days beyond the validity period of the bids, as extended, if applicable, in accordance with ITB Clause 20.2;

21.3 If a Bid Security is required in accordance with ITB Sub-Clause 21.1, any bid not accompanied by a substantially responsive Bid Security in accordance with ITB Sub-

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<sup>1</sup> The factor is based on India's projected inflation for the period in question. The borrower inserts the value in the bid document prior to issue.

Clause 21.1, shall be rejected by the Purchaser as non-responsive.

21.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB Clause 44.

21.5 The Bid Security may be forfeited or the Bid Securing Declaration executed:

(a) if a Bidder

(i) withdraws its bid during the period of bid validity specified by the Bidder on the Bid Submission Form, except as provided in ITB Sub-Clause 20.2;

or

(ii) does not accept the correction of errors in procurement of ITB 31,

or,

(b) if the successful Bidder fails to:

(i) sign the Contract in accordance with ITB Clause 43;

(ii) furnish a Performance Security in accordance with ITB Clause 44.

21.6 Not used

21.7 If a bid security is **not required in the BDS**, and

(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in ITB 20.2, or

(b) if the successful Bidder fails to: sign the Contract in accordance with ITB 43; or furnish a performance security in accordance with ITB 44;

the Borrower may, **if provided for in the BDS**, declare the Bidder disqualified to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

**22. Format and  
Signing of Bid**

- 22.1 The Bidder shall prepare one original of the documents comprising the bid as described in ITB Clause 11 and clearly mark it "ORIGINAL." In addition, the Bidder shall submit copies of the bid, in the number specified in the **BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.
- 22.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. The authorization shall be indicated by written Power of Attorney accompanying the bid.
- 22.3 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

**D. Submission and Opening of Bids**

**23. Submission,  
Sealing and  
Marking of  
Bids**

- 23.1 Bidders may always submit their bids by mail or by hand. When so specified in the **BDS**, bidders shall have the option of submitting their bids electronically.
- (a) Bidders submitting bids by mail or by hand, shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with ITB Clause 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB sub-Clauses 23.2 and 23.3.
- (b) Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the **BDS**.
- 23.2 The inner and outer envelopes shall:
- (a) Bear the name and address of the Bidder;
- (b) be addressed to the Purchaser in accordance with ITB Sub-Clause 24.1;
- (c) bear the specific identification of this bidding process indicated in ITB 1.1 and any additional identification marks as **specified in the BDS**; and

- (d) bear a warning not to open before the time and date for bid opening, in accordance with ITB Sub-Clause 27.1.
- 23.3 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the bid.
- 23.4 Talex, Cable or Facsimile bids will be rejected as non-responsive.
- 24. Deadline for Submission of Bids**
- 24.1 Bids must be received by the Purchaser at the address and no later than the date and time **specified in the BDS**. In the event of the specified date for the submission of Bids being declared a holiday for the Purchaser, the Bids will be received upto the appointed time on the next working day.
- 24.2 The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Documents in accordance with ITB Clause 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
- 25. Late Bids**
- 25.1 The Purchaser shall not consider any bid that arrives after the deadline for submission of bids, in accordance with ITB Clause 24. Any bid received by the Purchaser after the deadline for submission of bids shall be declared late, rejected, and returned unopened to the Bidder.
- 26. Withdrawal, Substitution, and Modification of Bids**
- 26.1 A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice in accordance with ITB Clause 23, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB Sub-Clause 22.2, (except that no copies of the withdrawal notice are required). The corresponding substitution or modification of the bid must accompany the respective written notice. All notices must be:
- (a) submitted in accordance with ITB Clauses 22 and 23 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked "Withdrawal," "Substitution," or "Modification;" and

(b) received by the Purchaser prior to the deadline prescribed for submission of bids, in accordance with ITB Clause 24.

26.2 Bids requested to be withdrawn in accordance with ITB Sub-Clause 26.1 shall be returned unopened to the Bidders.

26.3 No bid may be withdrawn, substituted, or modified 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 Bid Submission Form or any extension thereof.

## **27. Bid Opening**

27.1 The Purchaser shall conduct the bid opening in public at the address, date and time **specified in the BDS**. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB Sub-Clause 23.1, shall be as **specified in the BDS**. In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids will be opened at the appointed time and location on the next working day.

27.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding bid will not be opened. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at bid opening. Next, envelopes marked "Substitution" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at bid opening. Envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification

and is read out at Bid opening. Only envelopes that are opened and read out at Bid opening shall be considered further.

- 27.3 All other envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the Bid Prices, including any discounts and alternative offers; the presence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate. Only discounts and alternative offers read out at Bid opening shall be considered for evaluation. No Bid shall be rejected at Bid opening except for late bids, in accordance with ITB Sub-Clause 25.1.
- 27.4 The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; the Bid Price, per lot if applicable, including any discounts, and alternative offers if they were permitted; and the presence or absence of a Bid Security, if one was required. The Bidders' representatives who are present shall be requested to sign the attendance sheet. A copy of the record shall be distributed to all Bidders who submitted bids in time, and posted online when electronic bidding is permitted.

#### **E. Evaluation and Comparison of Bids**

- 28. Confidentiality**
- 28.1 Information relating to the examination, evaluation, comparison, and post qualification of bids, and recommendation of contract award, shall not be disclosed to bidders or any other persons not officially concerned with such process until publication of the Contract Award.
- 28.2 Any effort by a Bidder to influence the Purchaser in the examination, evaluation, comparison, and post qualification of the bids or contract award decisions may result in the rejection of its Bid.
- 28.3 Notwithstanding ITB Sub-Clause 28.2, from the time of bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing.

- 29. Clarification of Bids**
- 29.1 To assist in the examination, evaluation, comparison and post-qualification of the bids, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that changes the substance of the Bidder price of the bid shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the bids, in accordance with ITB Clause 31.
- 30. Responsiveness of Bids**
- 30.1 The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself.
- 30.2 A substantially responsive Bid is one that conforms to all the terms, conditions, and specifications of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:
- (a) affects in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
  - (b) limits in any substantial way, inconsistent with the Bidding Documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
  - (c) if rectified would unfairly affect the competitive position of other bidders presenting substantially responsive bids.
- 30.3 Bids from Agents, without proper authorization from the manufacturer as per Section XII, shall be treated as non-responsive.
- 30.4 If a bid is not substantially responsive to the Bidding Documents, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the material deviation, reservation, or omission.
- 31. Nonconformities, Errors, and Omissions**
- 31.1 Provided that a Bid is substantially responsive, the Purchaser may waive any non-conformities or omissions in the Bid that do not constitute a material deviation.
- 31.2 Provided that a bid is substantially responsive, the Purchaser may request that the Bidder submit the

necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

31.3 Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

31.4 If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be rejected and the Bid security may be forfeited

**32. Preliminary Examination of Bids**

32.1 The Purchaser shall examine the bids to confirm that all documents and technical documentation requested in ITB Clause 11 have been provided, and to determine the completeness of each document submitted.

32.2 The Purchaser shall confirm that the following documents and information have been provided in the Bid. If any of these documents or information is missing, the offer shall be rejected and the bid security may be forfeited.

- (a) Bid Submission Form, in accordance with ITB Sub-

Clause 12.1;

- (b) Price Schedules, in accordance with ITB Sub-Clause 12.2;
- (c) Bid Security in accordance with ITB Clause 21, if applicable.

**33. Examination of Terms and Conditions; Technical Evaluation**

33.1 The Purchaser shall examine the bid to confirm that the Bidder has accepted all terms and conditions specified in GCC and the SCC. without material deviations or reservation. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 18). Warranty (GCC Clause 28), Force Majeure (Clause 32), Limitation of liability (GCC Clause 30), Governing law (GCC Clause 9) and Taxes & Duties (GCC Clause 17) will be deemed to be a material deviation. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

33.2 The Purchaser shall evaluate the technical aspects of the Bid submitted in accordance with ITB Clause 18, to confirm that all requirements specified in Section VI, Schedule of Requirements of the Bidding Documents have been met without any material deviation or reservation.

33.3 If, after the examination of the terms and conditions and the technical evaluation, the Purchaser determines that the Bid is not substantially responsive in accordance with ITB Clause 30, it shall reject the Bid.

**34. Conversion to Single Currency**

Not used

**35. Domestic Preference**

Not used

**36. Evaluation of Bids**

36.1 The Purchaser shall evaluate each bid that has been determined, up to this stage of the evaluation, to be substantially responsive.

36.2 To evaluate a Bid, the Purchaser shall only use all the factors, methodologies and criteria defined in ITB Clause 36. No other criteria or methodology shall be permitted.

- 36.3 To evaluate a Bid, the Purchaser shall consider the following:
- (a) evaluation will be done for Items or Lots, as **specified in the BDS**; and the Bid Price as quoted in accordance with clause 14;
  - (b) price adjustment for correction of arithmetic errors in accordance with ITB Sub-Clause 31.3;
  - (c) price adjustment due to discounts offered in accordance with ITB Sub-Clause 14.4;
  - (d) adjustments due to the application of the evaluation criteria **specified in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria;
- 36.4 The Purchaser's evaluation of a bid will exclude and not take into account:
- (a) In the case of Goods manufactured in India or goods of foreign origin already located in India, vat, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
  - (b) any allowance for price adjustment during the period of execution of the contract, if provided in the bid.
- 36.5 The Purchaser's evaluation of a bid may require the consideration of other factors, in addition to the Bid Price quoted in accordance with ITB Clause 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of bids, unless otherwise specified in Section III, Evaluation and Qualification Criteria. The factors, methodologies and criteria to be used shall be as specified in ITB 36.3 (d).
- 36.6 If so **specified in the BDS**, these Bidding Documents shall allow Bidders to quote separate prices for one or more items, and shall allow the Purchaser to award one or multiple lots to more than one Bidder. The methodology of evaluation to determine the lowest-evaluated lot combinations is specified in Section III, Evaluation and Qualification Criteria.

- 37. Comparison of Bids** 37.1 The Purchaser shall compare all substantially responsive bids to determine the lowest-evaluated bid, in accordance with ITB Clause 36.
- 38. Post - qualification of the Bidder** 38.1 The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive bid is qualified to perform the Contract satisfactorily.
- 38.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 19.
- 38.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the bid, in which event the Purchaser shall proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform satisfactorily.
- 39. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids** 39.1 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 contract award, without thereby incurring any liability to Bidders.

#### **F. Award of Contract**

- 40. Award Criteria** 40.1 The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.
- 41. Purchaser's Right to Vary Quantities at Time of Award** 41.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VI, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS**, and without any change in the unit prices or other terms and conditions of the bid and the Bidding Documents.
- 42. Notification of Award** 42.1 Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted.

**Publication of Award**

42.2 Until a formal Contract is prepared and executed, the notification of award shall constitute a binding Contract.

42.3 The Purchaser shall publish in a National website[ GOI web site-<http://tenders.gov.in>] the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Purchaser for a debriefing seeking explanations on the grounds on which their bids were not selected. The Purchaser shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing.

**Recourse to unsuccessful Bidders**

42.4 Upon the successful Bidder's furnishing of the performance security and signing the Contract Form pursuant to ITB Clause 44, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 21.4.

**43. Signing of Contract**

43.1 Promptly after notification, the Purchaser shall send the successful Bidder the Agreement and the Special Conditions of Contract.

43.2 Within twenty-one (21) days of receipt of the Agreement, the successful Bidder shall sign, date, and return it to the Purchaser.

**44. Performance Security**

44.1 Within twenty one (21) days of the receipt of notification of award from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form included in Section IX Contract forms, or another Form acceptable to the Purchaser. The Purchaser shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Securities of the unsuccessful bidders pursuant to ITB Sub-Clause 21.4.

44.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of

the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

## SECTION II - BIDDING DATA SHEET

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

<b>ITB Clause Reference</b>	<b>A. General</b>
<b>ITB 1.1</b>	The Purchaser is: Chief Executive Officer, OLRDS, Bhubaneswar
<b>ITB 1.1</b>	The name and identification number of the NCB : NCB / NDP-I / Lab Equipment Identification number :- 01/18-19
<b>ITB 2.1</b>	The Borrower is Ministry of Finance, Government of India
<b>ITB 2.1</b>	The name of the Project is: National Dairy Support Project (National Dairy Plan – I)
<b>ITB 2.1</b>	Implementing Agency :- Odisha Livestock Resources Development Society (OLRDS), Bhubaneswar
<b>ITB 4.3</b>	A list of firms debarred from participating in World Bank projects is available at <a href="http://www.worldbank.org/debarr">http://www.worldbank.org/debarr</a>

<b>B. Contents of Bidding Documents</b>	
<b>ITB 7.1</b>	For <b>Clarification of bid purposes</b> only, the Purchaser's address is: The Chief Executive Officer, OLRDS, c/o- The Joint Director, Frozen Semen Bank, Khapurua, Cuttack Phone :- 0671 - 2344532 e-mail :- <b>ndpolrds@gmail.com</b>
<b>C. Preparation of Bids</b>	
<b>ITB 11.1(i)</b>	The Bidder shall submit the following additional documents in its bid: <ul style="list-style-type: none"> <li>• Bid Submission form (ITB – Clause :- 12, 14 &amp; 15)</li> <li>• Bid security (ITB – Clause – 21)</li> <li>• Written confirmation authorizing the signatory of the bid to commit the bidder (ITB – Clause – 22)</li> <li>• Documentary evidence establishing the bidder's eligibility (ITB – Clause – 16)</li> <li>• Documentary evidence related to Goods and related services (ITB – Clause – 17)</li> <li>• Documentary evidence related to Goods and related services (ITB – Clause – 18 &amp; 30)</li> <li>• Documentary evidence related to bidder's qualification to perform the contract (ITB – Clause – 19)</li> <li>• Authorization letter from the manufacturer</li> <li>• Detailed catalogue information</li> </ul>
<b>ITB 13.1</b>	Alternative Bids shall not be considered.
<b>ITB 14.5</b>	The Incoterms edition is Incoterm 2010.
<b>ITB 14.6 (a) (iii)</b>	“Final destination (Project Site)”: Office of the Joint Director Frozen Semen Bank At :- Khapurua Po:- Madhupatna Cuttack Dist :- Cuttack Odisha, India PIN :- 753010
<b>ITB 14.6 (c)</b>	The bidder may check if any exemption under GST is available or not. PMU, NDDDB or, EIA would not be responsible for any exemption.

<b>ITB 14.7</b>	The prices quoted by the Bidder shall not be adjustable.
<b>ITB 18.3</b>	Period of time the Goods are expected to be functioning (for the purpose of spare parts): 2 years from the date of commissioning at project site.
<b>ITB 19.1 (a)</b>	Manufacturer's authorization is: required as per proforma in Section IV.
<b>ITB 20.1</b>	The bid validity period shall be 90 days.
<b>ITB 21.1</b>	Bid shall include a Bid Security submitted by the bidder for each article in shape of bank draft only in favour of the "Chief Executive officer, OLRDS, Bhubaneswar" included in Section IV Bidding Forms;
<b>ITB 21.2</b>	The amount of the Bid Security will be deposited by the bidder for individual item is reflected in 'Schedule of Requirement' of the bidding documents.
<b>ITB 22.1</b>	In addition to the original of the bid, the number of copies is: One
<b>D. Submission and Opening of Bids</b>	
<b>ITB 23.1</b>	Bidders shall not have the option of submitting their bids electronically.
<b>ITB 23.1 (b)</b>	Not Applicable
<b>ITB 23.2 (c)</b>	The inner and outer envelopes shall bear the following additional identification marks: <ul style="list-style-type: none"> <li>• Name and Address of the bidder</li> <li>• Address of the purchaser</li> <li>• Specific identification as per ITB – 1.1</li> <li>• Warning 'Not to open before the time and date for bid opening'.</li> </ul>
<b>ITB 24.1</b>	For bid submission purposes, the Purchaser's address is: The Chief Executive Officer Odisha Livestock Resources Development Society (OLRDS) C/o:- Joint Director, Frozen Semen Bank At-Khapuria PO:- Madhupatana Cuttack Dist :- Cuttack State :- Odisha, India

	<p>PIN :- 753010  The deadline for the submission of bids is:  Date: 15.12.2018  Time: 3.00 PM</p>
<b>ITB 27.1</b>	<p>The bid opening shall take place at:  The Chief Executive Officer  Odisha Livestock Resources Development Society (OLRDS)  C/o:- Joint Director, Frozen Semen Bank  At-Khapuria  PO:- Madhupatana  Cuttack  Dist :- Cuttack  State :- Odisha, India  PIN :- 753010  Date 15-12-2018  Time: 3.20 PM</p>
<b>ITB 27.1</b>	<p>Electronic bid submission is not allowed.</p>

<b>E. Evaluation and Comparison of Bids</b>	
<b>ITB 36.3(a)</b>	<p>Evaluation will be done for each item separately.</p> <p>Bids will be evaluated for each item and the Contract will comprise the item(s) awarded to the successful bidder.</p>
<b>ITB 36.3(d)</b>	<p>The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria</p> <p>(a) Deviation in Delivery schedule: No. No credit will be given to earlier deliveries and bids offering delivery period beyond three months of stipulated delivery period will be treated as non responsive.</p> <p>(b) Deviation in payment schedule: No</p> <p>(c) The cost of major replacement components, mandatory spare parts, and service: No</p> <p>(d) The availability in the Purchaser's Country of spare parts and after-sales services for the equipment offered in the bid – No</p> <p>(e) The projected operating and maintenance costs during the life of the equipment: - No</p> <p>(f) The performance and productivity of the equipment offered; - No</p>
<b>ITB 36.4</b>	<p>(a) The purchasers' evaluation of a bid will include all taxes and other charges applicable.</p> <p>(b) No price adjustment will be allowed during the period of execution of contract.</p>
<b>ITB 36.6</b>	Bidders shall be allowed to quote prices for one or more items.
<b>F. Award of Contract</b>	
<b>ITB 41.1</b>	<p>The maximum percentage by which quantities may be increased is: 15%</p> <p>The maximum percentage by which quantities may be decreased is: 15%</p>

### **SECTION III. EVALUATION AND QUALIFICATION CRITERIA**

#### **Contents**

1. Evaluation Criteria (ITB 36.3 {d}) .....	35
2. Multiple Contracts (ITB 36.6).....	35
3. Post - qualification Requirements (ITB 38.2).....	35

## **1. Evaluation Criteria (ITB 36.3 (d))**

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14.6, one or more of the following factors as specified in ITB Sub-Clause 36.3(d) and in BDS referring to ITB 36.3(d), using the following criteria and methodologies.

- (a) Delivery schedule. (As per Incoterms specified in the BDS) :- No
- (b) Deviation in payment schedule. : - No
- (c) Cost of major replacement components, mandatory spare parts, and service: - No
- (d) Availability in the Purchaser's Country of spare parts and after sales services for equipment offered in the bid. - No
- (e) Projected operating and maintenance costs.- No
- (f) Performance and productivity of the equipment. : - No
- (g) Not Required

## **2. Multiple Contracts (ITB 36.6)**

The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated bid and meets the post-qualification criteria (this Section III, Sub-Section ITB 38.2 Post-Qualification Requirements)

The Purchaser shall:

- (a) Take into account:
  - (i) The lowest-evaluated bid for each item.

## **3. Post-qualification Requirements (ITB 38.2)**

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 37.1, the Purchaser shall carry out the post - qualification of the Bidder in accordance with ITB Clause 38, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

The turnover requirement - as per following table in each of preceding 3 financial years (2017-18, 2016-17, 2015-16). Please submit audited financial statement for the last three financial years (2017-18, 2016-17, 2015-16).

Sl. No.	Item Description	Minimum required average annual turnover for the last 3 financial years i.e. 2017-18, 2016-17, 2015-16 (Rs in lakh)
1	Bovine Photometer	10.00
2	Laminar Air flow unit - Vertical	5.00
3	LN – storage container (50L)	5.00
4	Semi-automatic distribution of LN2	10.00
5	Air – conditioner – 2 Ton - Split	1.00
6	Digital pH meter	1.00
7	Bacteriological incubator	2.00
8	Slide Warmer	1.00
9	Central stabilizing power for semen lab	10.00
10	Water Purifying Equipment	10.00
11	Air Shower	4.00
12	AV sterilizer	1.00
13	Dynamic Pass box	4.00
14	CASA	50.00

- Joint Ventures will not be allowed.
- Attested Photocopy of up to date GST registration certificate.

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- Supply requirement - Bidder should have supplied (cumulative) more than numbers specified against each item as per the following list to other Livestock Development Boards, Milk Cooperative Union/ Federation in India or other relevant organizations in the same name during the last 3 financial years (2017-18, 2016-17, 2015-16).

Sl. No.	Item Description	Minimum requirement(number)
1	Bovine Photometer	02
2	Laminar Air flow unit - Vertical	05
3	LN – storage container (50L)	30
4	Semi-automatic distribution of LN2	01
5	Air – conditioner – 2 Ton - Split	02
6	Digital pH meter	02
7	Bacteriological incubator	05
8	Slide Warmer	02
9	Central stabilizing power for semen lab	01
10	Water Purifying Equipment	01

11	Air Shower	02
12	AV sterilizer	01
13	Dynamic Pass box	05
14	CASA	01

- (a) The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement:
- Usage as per technical specification
- (b) The Bidder must furnish details of supplies made by him in the last three years in proforma attached in Section VI

**SECTION IV – BIDDING FORMS**

**Table of Forms**

Bidder Information Form ..... 39  
Bid Submission Form..... 40  
Price Schedule ..... 43  
Price and Completion Schedule - Related Services..... 45  
Bid Security (Bank Guarantee) ..... 47  
Manufacturer's Authorization ..... 49

## BIDDER INFORMATION FORM

*[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Page \_\_\_\_\_ of \_\_\_\_\_ pages

1. Bidder's Legal Name <i>[insert Bidder's legal name]</i>
2. Bidder's actual or intended Country of Registration: <i>[insert actual or intended Country of Registration]</i>
3. Bidder's Year of Registration: <i>[insert Bidder's year of registration]</i>
4. Bidder's Legal Address in Country of Registration: <i>[insert Bidder's legal address in country of registration]</i>
5. Bidder's Authorized Representative Information  Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
6. Attached are copies of original documents of: <i>[check the box(es) of the attached original documents]</i>  <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 1, above, in accordance with ITB Sub-Clauses 4.1 and 4.2.  <input type="checkbox"/> In case of government owned entity from the Purchaser's country, documents establishing legal and financial autonomy and compliance with commercial law and not dependent agency of borrower or sub-borrower or purchaser, in accordance with ITB Sub-Clause 4.5.

## BID SUBMISSION FORM

*[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]*

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Invitation for Bid No.: *[insert No of IFB]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda No.: *[insert the number and issuing date of each Addenda]*;
- (b) We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Bid, excluding any discounts offered in item (d) below, is: *[insert the total bid price in words and figures, indicating the various amounts and the respective currencies]*;
- (d) The discounts offered and the methodology for their application are:

**Discounts.** If our bid is accepted, the following discounts shall apply. *[Specify in detail each discount offered and the specific item of the Schedule of Requirements to which it applies.]*

**Methodology of Application of the Discounts.** The discounts shall be applied using the following method: *[Specify in detail the method that shall be used to apply the discounts]*;

- (e) Our bid shall be valid for the period of time specified in ITB Sub-Clause 20.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 24.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 44 and GCC Clause 18 for the due performance of the Contract;
- (g) We, including any subcontractors or suppliers for any part of the contract, have nationality from eligible countries

- (h) We have no conflict of interest in accordance with ITB Sub-Clause 4.3;
- (i) Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared ineligible by the Bank, under the Purchaser’s country laws or official regulations, in accordance with ITB Sub-Clause 4.6;
- (j) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(If none has been paid or is to be paid, indicate “none.”)

- (k) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (l) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (m) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.
- (n) 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 namely, “Prevention of Corruption Act 1988.”

Signed: *[insert signature of person whose name and capacity are shown]*  
 In the capacity of *[insert legal capacity of person signing the Bid Submission Form]*

Name: *[insert complete name of person signing the Bid Submission Form]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*

### **Price Schedule Forms**

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]

**PRICE SCHEDULE**

Date: \_\_\_\_\_  
 NCB No: \_\_\_\_\_  
 Alternative No: \_\_\_\_\_  
 Page N<sup>o</sup> \_\_\_\_\_ of \_\_\_\_\_

1	2	3	4	5	6	7	8	9
Line Item No	Description of Goods	Delivery Date	Quantity and physical unit	Unit price EXW [including excise duty if any]	Total EXW price per line item [including Excise Duty if any] (Col. 4×5)	Price per line item for inland transportation, insurance and other services required to convey the Goods to their final destination	GST payable per item if Contract is awarded (in accordance with ITB 14.6(a)(ii))	Total Price per line item (Col. 6+7)

<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert sales and other taxes payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
							<b>Total Price</b>	

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Note: (a) The bidder shall give list of spares for **2 years operation** separately indicating description, quantity, unit price and total price in the above format, for those items whose scope of supply includes spare parts as per technical specification.

**PRICE AND COMPLETION SCHEDULE - RELATED SERVICES**

Date: \_\_\_\_\_

NCB No: \_\_\_\_\_

Alternative No: \_\_\_\_\_

Page N° \_\_\_\_\_ of \_\_\_\_\_

1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required in India to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6)
<i>[insert numb er of the Servic e ]</i>	<i>[insert name of Services]</i>	<i>[insert country of origin of the Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
	<i>Insert after modifying as appropriate deleting inapplicable items from the following:</i>					
1	<i>Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>					
2	<i>Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>					

3	<i>Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>					
4	<i>Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>					
5	<i>Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>					
6						
7						
<b>Total Bid Price</b>						

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

## **BID SECURITY (BANK GUARANTEE)**

*[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]*

*[insert Bank's Name, and Address of Issuing Branch or Office]*

**Beneficiary:** *[insert name and address of Purchaser]*

**Date:** *[insert date]*

**BID GUARANTEE No.:** *[insert bid Guarantee number]*

We have been informed that *[insert name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated *[insert date]* (hereinafter called "the Bid") for the execution of *[insert name of Contract]*.

Furthermore, we understand that, according to your conditions, bids must be supported by a Bid Guarantee.

At the request of the Bidder, we *[insert name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount in figures expressed in the currency of the Purchaser's Country or the equivalent amount in an international freely convertible currency]*, *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Bid Submission Form; or
- (b) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity as stated in the Bid Submission Form or extended by the Employer at any time prior to expiration of this period, (i) fails or refuses to execute the Contract, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB, and (iii) does not accept the correction of Bid price pursuant to ITB Clause 31.

This Guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract signed by the Bidder and the Performance Security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful Bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the Bidder was unsuccessful; or (ii) forty-five days after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

This Guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

*[Signature(s) of authorized bank's representative(s)]*

**MANUFACTURER'S AUTHORIZATION**

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are legally binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the **BDS.**]*

Date: *[insert date (as day, month and year) of Bid Submission]*

NCB No.: *[insert number of bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

**WHEREAS**

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract against the above IFB.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm against this IFB.

No company or firm or individual other than M/s. \_\_\_\_\_ are authorized to bid, and conclude the contract for the above goods manufactured by us against this specific IFB. *[This para should be deleted for simple items where manufacturers normally sell the product through different stockists].*

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*

*Note – Modify this format suitably in cases where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited. If the supply consists of number of items, indicate the specific item (s) for which alone the above authorization is required.*

**SECTION V. – ELIGIBLE COUNTRIES**

**Public Information Center**

**Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement**

1. In accordance with Para 1.8 of the Guidelines: Procurement under IBRD Loans and IDA Credits, dated May 2004, the Bank permits firms and individuals from all countries to offer goods, works and services for Bank-financed projects. As an exception, firms of a Country or goods manufactured in a Country may be excluded if:

Para 1.8 (a) (i): as a matter of law or official regulation, the Borrower’s Country prohibits commercial relations with that Country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of the Goods or Works required, or

Para 1.8 (a) (ii): by an Act of Compliance with a Decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of goods from that Country or any payments to persons or entities in that Country.

2. For the information of borrowers and bidders, at the present time firms, goods and services from the following countries are excluded from this bidding:<sup>2</sup>

(a) With reference to paragraph 1.8 (a) (i) of the Guidelines:

\_\_\_\_\_  
\_\_\_\_\_

(b) With reference to paragraph 1.8 (a) (ii) of the Guidelines:

\_\_\_\_\_  
\_\_\_\_\_

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<sup>2</sup> Any questions regarding this list should be addressed to the Director, Procurement Policy and Services Group, Operational Core Services Network, The World Bank

## **PART 2 - SUPPLY REQUIREMENTS**

**SECTION VI – SCHEDULE OF REQUIREMENTS**

1. LIST OF GOODS AND DELIVERY SCHEDULE ..... 53

2. LIST OF RELATED SERVICES [ITB CLAUSE 14.6(D)] AND COMPLETION SCHEDULE .... 55

3. TECHNICAL SPECIFICATIONS ..... 56

4. DRAWINGS..... 90

5. INSPECTIONS AND TESTS ..... 91

6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER AFTER  
SUCCESSFUL INSTALLATION AND STARTUP OF THE SUPPLIED GOODS ..... 92

7. PERFORMA FOR PERFORMANCE STATEMENT ..... 94

8. DECLARATION FOR EXCISE BENEFITS ..... 94

**1. LIST OF GOODS AND DELIVERY SCHEDULE**

Line Item No	Description of Goods	Quantity	Physical unit (In No.)	Final (Site) Destination as specified in BDS	Delivery (as per Incoterms 2010) Date			
					Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]	Bid Security in Indian Rupees
1	Bovine Photometer	01	01	Office of the Joint Director Frozen Semen Bank, Khapuria Po:- Madhupatna Cuttack Odisha Pin :- 753010	15 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00
2	Laminar Air flow unit - Vertical	02	02		30 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00
3	Liquid Nitrogen – storage container (50L)	31	31		30 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00
4	Semi-automatic distribution of LN2 (SADLN)	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00
5	Air – conditioner – 2 Ton - Split	04	04		15 days from date of issue of purchase order	30 days from date of issue of purchase order		10000.00
6	Digital pH meter	02	02		30 days from date of issue of purchase order	60 days from date of issue of purchase order		5000.00
7	Bacteriological incubator	03	03		30 days from date of issue of purchase order	60 days from date of issue of purchase order		6000.00
8	Slide Warmer	02	02		30 days from date of issue of purchase order	60 days from date of issue of purchase order		5000.00

9	Central stabilizing power for semen lab	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00
10	Dynamic Pass box	04	04		30 days from date of issue of purchase order	60 days from date of issue of purchase order		40000.00
11	CASA	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		280000.00
12	AV sterilizer	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		5000.00
13	Air Shower	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		20000.00
14	Water Purifying Equipment	01	01		30 days from date of issue of purchase order	60 days from date of issue of purchase order		50000.00

***[ “Bidder’s offered Delivery date” to be filled by the Bidder]***

**2. List of Related Services [ITB Clause 14.6(b)] and Completion Schedule**

<b>Service</b>	<b>Description of Service</b>	<b>Quantity</b>	<b>Physical Unit (In no.)</b>	<b>Place where Services shall be performed</b>	<b>Final Completion Date(s) of Services</b>
1	Performance or supervision of the on-site assembly and/or start-up of the supplied Goods	Visit by the service engineer for installation	1	Office of the Joint Director Frozen Semen Bank, Khapuria Po:- Madhupatna Cuttack, Odisha Pin :- 753010	7 days
2	Furnishing of tools required for assembly and/or maintenance of the supplied Goods	Set of required tool for maintenance	1	do	
3	Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods	One manual	1	do	On the day of installation
4	Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract	2 years	2 years of warranty	Do	After successful installation
5	Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods	One training	4	Do	Training to two officers and two lab. technicians during installation

### 3. TECHNICAL SPECIFICATIONS

#### Detailed Technical Specifications and Standards

The Goods and Related Services shall comply with following Technical Specifications and Standards:

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
1	<i>BOVINE PHOTOMETER</i>	<ul style="list-style-type: none"> <li>➤ Factory Pre-Calibrated with Quadratic Equation.</li> <li>➤ Equipped with didymium filter and self calibrate its wavelength each time it is turned ON.</li> <li>➤ Should perform an auto test of all optics and electronics upon each boot up sequence with systematic printout with date and time.</li> <li>➤ Waterproof Keyboard resistant to aggressive compound and products.</li> <li>➤ Permanent real time display of absorbance and wavelength.</li> <li>➤ Concentration &amp; Simultaneous display of concentration and absorption.</li> <li>➤ Concentration Calculation – Absorption, concentration, extender volume to be added and number of doses to be prepared should be calculated, displayed and printed with sample number, date &amp; time.</li> <li>➤ Photometer should perform minimum 20 readings per sample and calculate the average result.</li> <li>➤ The result should be expressed according to a second-degree regression curve, making the concentration readings more accurate in comparison to a first-degree equation, which has the tendency to under estimate low concentrations and over estimate high concentrations.</li> <li>➤ Provision of use of calibrated filters to test the repeatability of the unit. Mean, Average, and variance of 4 measurements should be calculated for each filter.</li> <li>➤ Should have integrated program, which calculates &amp; displays required volume of</li> </ul>

		<p>extender to be added and the number of straws that can be produced per ejaculate (French mini straws (0.25ml)) according to the concentration of spermatozoa you want in each straw.</p> <ul style="list-style-type: none"> <li>➤ The Dilutor should be capable of creating more than 20 adapted and personalized programs.</li> <li>➤ Should have an option to take print results with Sample Number, Date &amp; time</li> <li>➤ The diluter should be supplied with the photometer it is a precision liquid processor for diluting, dispensing of liquid sample with high performances, making it accurate and reliable.</li> <li>➤ The diluter should be able to perform accurate and precise liquid handling and automatic dilutions, up to 1/250000. It can also dispense up to 50ml per cycle.</li> <li>➤ Easy tubing installation, easy cleaning system by an adapted program.</li> <li>➤ Photometer should have also equipped with a RS232 interface for use of thermal printer or be connected with computer.</li> <li>➤ Memory – Minimum 50 Performance test memories</li> <li>➤ Band Pass - &lt; 10 nm (Nanometer)</li> <li>➤ Accuracy – ±1.5 nm</li> <li>➤ Repeatability - ± 1 nm</li> <li>➤ Photometric range - 400 to 700 nm</li> <li>➤ Power Supply-Adaptable to use 230-250V/50Hz AC power supply.</li> </ul>
	<i>Related Services:</i>	
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes, Free supply of 2000 nos of cuvettes and all additional software.
	<i>c) Furnishing of detailed operations and maintenance</i>	Yes

	<i>manual for each appropriate unit of supplied Goods</i>	
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	<p>Yes</p> <p><b>Scope of work: Supply and Installation at Semen Processing Laboratory of Frozen Semen Bank, Cuttack.</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
2	<i>LAMINAR AIR FLOW (VERTICAL)</i>	<ul style="list-style-type: none"> <li>• Inner Chamber &amp; Outer Chamber made of stainless steel high efficiency particular air filters, to achieve the air purification up to 0.3 Microns in Working area.</li> <li>• Working area :- <b>4 ft x 3.5 ft x 3.5ft</b></li> <li>• Blower fitted with ¼ HP Motor, with RPM 1200 to 1400.</li> <li>• Pre-filters made of high grade nylon Net fixed in S.S. frame for first Stage air purification, through blower system. Minimum 2 nos of pre filters to be attached to the machine.</li> <li>• Closed Inner Chamber fitted with HEPA having very accurate performance rate of air filtration, rated 99.99%, resulting in ceasing all air bore molecule of particle upto 0.3 micron in working Area of Laminar Bench.</li> <li>• Working area of Laminar Airflow Cabinets illuminated by fluorescent light</li> <li>• Cabinets operated at 230V. Single Phase 50Hz. AC Supply.</li> <li>• Fitted with UV Germicidal lamp for sterilization.</li> <li>• Fitted with Acrylic Front Door sliding type fitted with Manometer for Measurement of HEPA Filters</li> <li>• Choking system. Fitted with Cock for Gas Connection.</li> </ul>
	<i>Related Services:</i>	
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	<i>Yes, Validation</i> of Particle dust count at site after installation
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	<i>Yes</i>
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	<i>Yes</i>

	<p>d) <i>Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p>e) <i>Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope :- Supply and installation at Frozen Semen Bank, Cuttack</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
3	<b>Liquid Nitrogen Storage Container (50 L Capacity)</b>	<p>Net capacity 50 - 55 litres</p> <p>Major dimensions Minimum requirement</p> <p>Neck dia. 50-52 mm</p> <p>Outer dia. 430 - 470 mm</p> <p>Total Height 715 - 820 mm</p> <p>Max. allowable static evaporation rate Below 0.5Litres/ day</p> <p>Minimum required static holding time Aprox. 125 days</p> <p>Material of construction:</p> <p>Container body Aluminium. Alloy</p> <p>Cap Grade IS 737- 1974 (52000). Polycarbonate</p> <p>Insulation Multi-layer Super Insulation (MLSI)</p> <p>The container should be sturdy to withstand regular jerks.</p> <p>The supplier should indicate the degree of vacuum in 'Torr' and the material of insulation.</p> <p>The cap of the container may be in one or two parts i.e. outer lid made of Aluminium/Polycarbonate and inner neck plug with insulating material.</p> <p>The cap should have provision for locking during transit.</p> <p>The inner and outer corners of the container should be well reduced.</p> <p>Lifting handle/handles should be provided for easy handling of the container.</p> <p>The container shall be protected from external shock by gluing suitable rubber padding of trapezoidal cross section (one bottom and three side rings).</p>
<b>Related Services:</b>		
	a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods	Yes, All the cryocans will be tested after delivery at FSB, Cuttack before use and if found defective, then the supplier will replace it at its own cost.
	b) Furnishing of tools	Yes

	<i>required for assembly and/or maintenance of the supplied Goods</i>	
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	<p>Yes</p> <p>Each container should be provided with a test certificate and guarantee card.</p> <p>Containers should be packed separately with proper packing material to avoid damage during transit.</p>
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	<p>Yes</p> <p><b>Scope of work: Supply at Frozen Semen Bank, Cuttack.</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>																																										
4	<b>Semi Automatic Distribution of LN2 (SADLN)</b>	<p>Manufacturing, Supply, Erection &amp; commissioning of SIVL Line (Rigid &amp; Flexible) for transfer of Liquid Nitrogen as follows:  Transport Tanker to  OMRs at Semen Bulk Storage and dispatch section  Semen processing lab.  Total estimated consumption points with individual valves-6 nos.</p> <table border="0" data-bbox="630 701 1380 1556"> <thead> <tr> <th>Particulars</th> <th>Item</th> <th>Specification</th> </tr> </thead> <tbody> <tr> <td>Service fluid</td> <td>LN2</td> <td></td> </tr> <tr> <td>Design temp.</td> <td>oC</td> <td>-196</td> </tr> <tr> <td>Test pressure of inner pipe</td> <td>Bar g</td> <td>10.0</td> </tr> <tr> <td>Operating pressure</td> <td>Bar .a</td> <td>7.0</td> </tr> <tr> <td>Operating Temp</td> <td>oC</td> <td>-196</td> </tr> <tr> <td>Inner pipe (15NB)</td> <td>SA312 TP304Sch10S</td> <td></td> </tr> <tr> <td>Outer pipe (80NB)</td> <td>SA312 TP304Sch10S</td> <td></td> </tr> <tr> <td>Cryogenic valves</td> <td>Nonferrous</td> <td></td> </tr> <tr> <td>Cryogenic safety valves</td> <td>Nonferrous</td> <td></td> </tr> <tr> <td>Insulation type</td> <td>Multi Layer Insulation</td> <td></td> </tr> <tr> <td>Vacuum Level</td> <td>Below 20 micron</td> <td></td> </tr> <tr> <td>Vacuum retention test</td> <td>72 hrs. vacuum holding</td> <td></td> </tr> <tr> <td>Surface of outer jacket</td> <td>Cleaned and polished external surface of outer jacket.</td> <td></td> </tr> </tbody> </table> <p><b>Valve:</b>  Operating conditions- Normally close  Type: VJ  Flow characteristic: Linear</p> <p><b>General Specifications:</b>  Valve Body; SS 304L or better grade  Valve sealing: Preferably Bellowed sealed type</p> <p><b>Preferred makes:</b>  On/Off, control and Manual Valves : Weka, Velan, ACME, Herose</p>	Particulars	Item	Specification	Service fluid	LN2		Design temp.	oC	-196	Test pressure of inner pipe	Bar g	10.0	Operating pressure	Bar .a	7.0	Operating Temp	oC	-196	Inner pipe (15NB)	SA312 TP304Sch10S		Outer pipe (80NB)	SA312 TP304Sch10S		Cryogenic valves	Nonferrous		Cryogenic safety valves	Nonferrous		Insulation type	Multi Layer Insulation		Vacuum Level	Below 20 micron		Vacuum retention test	72 hrs. vacuum holding		Surface of outer jacket	Cleaned and polished external surface of outer jacket.	
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Valves controllers : Emerson, Siemens, ABB  
**Technical specifications: Safety Valves (PSVs) as per standard of Govt. of India.**

**Technical Specifications: Cryogenic Vacuum Jacketed line**

Design and sizing of the lines as per the flow, temperature and pressure requirements

The design shall ensure enough flexibility preferably using bellows or internal hoses.

The lines should be fabricated in segments with all the standard tests of vacuum jacketed line

The fabrication of the lines shall be as per applicable ASME or equivalent standards.

The material shall be 304L or better grade. The pipes shall be seam less.

The segments shall be assembled at the site with valves and other instrumentation

Each segment shall be equipped with vacuum pumping port.

The contractor shall provide plunger for evacuation.

The quality of each segment shall be such that after first pumping and sealing it shall hold the static vacuum for minimum 2 years. Vendor shall give guarantee for this.

The leak rate for each weld and overall segment is as defined in section 6.1

The heat leak rate shall be 2 W/m max. These values shall be submitted for approval.

Flow velocity max. 20 m/s

MLI shall be used as Insulation on the inner line. The make of this MLI shall be submitted for approval.

Contractor has to provide vacuum pumping tools along with the lines

Length of Vacuum Jacketed (LN<sub>2</sub>) Line :- Approximately 90 mts.

a) 75 g/s – ~30 m

b) 60 g/s - ~10 m

c) 5 g/s - ~20 m

Length of vapour line (120 g/s , 50 % vapour)– 30 m

**Technical Specifications: Insulated line**

Design and sizing of the lines as per the flow, temperature and pressure requirements

The material shall be 304L or better grade. The pipes shall be seam less.

No formation ice or any condensation on the surface

The material used shall be as per safety norms for indoor applications

Insulation type (Armaflex or better grade) and method of applying shall be submitted for approval during quotation

		<p>process. The details and compatibility of insulation at cryogenics temperature shall be submitted.  The material shall be 304L or better grade.  Length of Gaseous Line : 90 mts.  <b>Technical Specifications: Isolator boxes</b>  Vacuum jacket material: SS304L  Pipes material: SS316 L seamless  Kenol Couplers : FIM  Isolator box shall be equipped with a vacuum port for evacuation  Safety valve to avoid pressure build in case of vacuum loss  MLI shall be wrapped above the isolators assembly.  Isolator boxes shall be supported on the platform.  <b>Technical Requirements: Welding and Radiography:</b>  Filler material shall be compatible with piping material  All the weld joints shall be made of TIG welding  100% radiography of all the lines joints.  <b>Technical Requirements: Pipes and Flanges:</b>  All the piping (pipes, bends, Tees) and flanges shall be SS 304L or better grade  All the pipes used shall be seamless  The sealing gaskets shall be compatible with the application</p>
<i>Related Services:</i>		
	<p>a) <i>Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i></p>	<p>Yes,  <b>Scope of SADLN work:</b>  Work contains design, procurement, fabrication at FSB lab &amp; Semen dispatch section , and site work.  Process design  Thermo hydraulic calculations, Instrumentation and lines details and sizing  Drawings preparation (including layouts)  Fabrication and/or procurement of different segments of Nitrogen lines  All the necessary spares and tools for future maintenance  <b>Salient Points for work execution:</b>  It is the responsibility of the contractor starting from the site visit to final acceptance test of the SADLN .The contractor shall visit the site before submitting the bid.  The contractor has to arrange/provide all the necessary tools, equipment, cables, material and all other provisions required to carry out the above job.  It is the complete scope of contractor including all the minor details like supports, cables, wiring, electrical wiring, Vacuum pumps etc., to finish the above work.</p>

	<p><i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i></p>	<p>Yes</p> <p>Detailed mechanical and thermal Design of SADLN as per the specifications</p>
	<p><i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i></p>	<p>Yes, Complete documentation including operating manuals (Soft and Hard copies)</p> <p><b>QA/QC Procedures:</b> The contractor is responsible for the quality of the ECDS throughout all phases of execution whether the work is performed by the contractor or Sub-contractors or Contractors.</p> <p><b>The contractor has to submit detailed QA/QC procedures for the following:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Design</li> <li><input type="checkbox"/> Fabrication</li> <li><input type="checkbox"/> Erection and Installation</li> <li><input type="checkbox"/> Leak testing</li> <li><input type="checkbox"/> Materials</li> <li><input type="checkbox"/> Acceptances</li> <li><input type="checkbox"/> Resources</li> <li><input type="checkbox"/> Documentation</li> <li><input type="checkbox"/> Codes and standards for the complete ECDS</li> </ul> <p>The Contractor shall submit the design details after getting it approval from the competent authority.</p>
	<p><i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p> <p>The warranty shall be for the individual components and also for the workman ship.</p> <p>All the defective components shall be replaced at free of cost. All the repairs shall be done at free of cost. The performance shall not be degraded after the replacement and repair.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work: Supply and installation at Frozen Semen Bank, Cuttack.</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
5	<b>Air Conditioner 2 ton - Split</b>	<p><b>Technical specification</b></p> <p>Cooling Capacity Nominal (Kcal/hr) 5800  Cooling Cap (min) Guaranteed (Kcal/hr) 5500 Min.  Room Discharge AIR flow (Cub.m/hr) 2.7 min  8100 EER ( w/w)  Star Rating <b>5 Star</b></p> <p>Power V/Hx/Ph 220-240V / 50Hz 1Ph  Ton 2  Capacity (BTU/hr) 24000  Refrigerant R22. R407C or R410a  Air Flow Volume (m3/h) 1100  Power Consumption 2340 W  Operation Current 10.8 A  Capacity 24000 BTU  Noise Level (Indoor) should be better than 45 DB  Compressor High quality , copper, rotary type compressor, Refrigerant Leakage Detector</p> <p>Elegant panel design, with LED/LCD central Display  Galvanized outdoor unit or plastic outdoor unit for anti-corrosion  More than 10 meters remote control distance  Flat panel for easy cleaning, washable plastic filter and horizontal auto louver</p>
<b>Related Services:</b>		
	a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods	Yes, The cost of Air Condition should include installation at the site.
	b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods	Yes

	<p><i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i></p>	<p>Yes,</p>
	<p><i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work: Supply and installation at Frozen Semen Bank, Cuttack.</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
6	<b>Digital pH meter</b>	<p><b>pH:</b>  pH range- 0 to 14 pH  Resolution: 0.001 pH  Stability: 0.002 pH per hour  Relative accuracy: <math>\pm 0.002 \text{ pH} \pm 1 \text{ digit}</math>  Acceptable electrode slope: 85 to 105 %  Standardsbuffer: 1.679, 4.004, 7.000, 9.183, 12.454  Acceptable buffer deviation: <math>\pm 0.5 \text{ pH}</math>  Other working buffers: 0 to 14 pH</p> <p><b>mV:</b>  mVrange -Absolute <math>\pm 1999.9 \text{ mV}</math>  mV-Relative <math>\pm 1999.9 \text{ mV}</math> (Approx. with reference to 7 pH buffer)  Resolution: 0.1 mV  Accuracy: <math>\pm 0.5 \text{ mV} \pm 1 \text{ Digit}</math>, or <math>\pm 0.05 \%</math> of reading, whichever is greater</p> <p><b>Temperature:</b>  Range: 0 to 990C  Resolution: 0.1 0C  Accuracy: <math>\pm 0.50\text{C} \pm 1 \text{ digit}</math></p> <p><b>General:</b>  <b>Inputs:</b>  2 channels for pH / mV sensing electrodes  2 sockets for external reference electrodes  1 channel for temperature probe</p> <p><b>Dimensions:</b>  305 mm(W) 25 mm (D), 125 mm (H)</p> <p><b>Power supply:</b>  230v AC <math>\pm 10\%</math>, 50 Hz</p> <p><b>Other features of pH Meter:</b></p> <ul style="list-style-type: none"> <li>• PH/Concentration/mV/Temperature measurements.</li> <li>• Dual channel inputs with Difference facility.</li> <li>• Interactive 20 X 2 alpha-numeric LCD Display.</li> <li>• 2-point and 3-point calibration for pH measurements.</li> <li>• 2 to 5 standards calibration for concentration measurements.</li> <li>• 3 pH and 16 concentration calibration can be stored in battery backup memory.</li> <li>• Automatic / Manual Temperature Compensation.</li> <li>• 80 readings of pH and 80 readings of concentration can be stored in battery backup memory.</li> </ul>

		<ul style="list-style-type: none"> <li>• Centronix printer port for hard copy.</li> <li>• Retrieval of stored readings through printing facility for pH and concentration.</li> <li>• Single Reading printing facility for pH and concentration modes</li> <li>• Time scan on-line printing facility for pH and mV(Data and Graph ,both).</li> <li>• Time Scan on-line printing facility for concentration (Data only).</li> <li>• RTC (real time clock) mode displays date and time.</li> </ul>
<i>Related Services:</i>		
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes, The concern should have experience of installing successfully at least three same systems in India, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Yes,
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	<i>2 years from date of commencing</i> The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached. The manufacturer should have their services centre in India to provide after sales services.
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	Yes <b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
7	<b>Bacteriological Incubator</b>	<ul style="list-style-type: none"> <li>- Double walled construction with complete outer and inner chamber made of Highly Polished Stainless Steel.</li> <li>- <b>Size of inner chamber:</b> 750 × 750 × 1200 mm (L×B×H)</li> <li>- The gap (65mm) between the walls is filled with special grade insulation material for proper insulation and to avoid heat losses.</li> <li>- Inner chamber fabricated with ribs for adjusting shelves to convenient height.</li> <li>- Supplied with three removable shelves made of S.S. Sheet.</li> <li>- Fitted with Air Circulating Fan.</li> <li>- With two doors. The outer door is insulated and is fitted with heavy hinges. Inner door is made of glass panel mounted in a wooden frame to facilitate inspection of samples, without disturbing the chamber temperature.</li> <li>- Heating elements made of high grade imported nichrome wire should be insulated inside the porcelain beads and placed at the bottom and side ribs for uniform temperature all over the space.</li> <li>- Temperature is controlled by Digital Display Temperature Controller-Cum-Indicator from 5°C above ambient to 60°C ±0.5°C.</li> <li>- Set “Over temperature” safety and alarm: provided with set over temperature safety up to 10 deg. C (adjustable) and audio alarm feature should be incorporated in the temperature controller.</li> <li>- Air ventilators port are provided on sides at top for ventilate fumes and to assist convection process.</li> <li>- Control Panel: The equipment should be provided with a panel having a temperature control knob, ON/OFF switch and indicating light</li> <li>- Supplied with cord and plug. Suitable to operate on 220 V single phase, 50 Hz, AC supply.</li> </ul>

<i>Related Services:</i>		
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes, On-site installation
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Yes,
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i>	<i>2 years from date of commencing</i> The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached. The manufacturer should have their services centre in India to provide after sales services.
	<i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i>	Yes <b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
8	<b>Slide Warmer</b>	<p>The Slide Warmer (Hot plate) should conform to the following technical Specifications:</p> <ul style="list-style-type: none"> <li>- Electrically operated and rectangular in shape</li> <li>- Top plate made of Stainless Steel and body of thick mild steel</li> <li>- Top plate is mounted on an insulated metal frame</li> <li>- Fitted with <b>Digital Temp. Controller with dual display.</b></li> <li>- Fitted with energy regulator for long life of heaters.</li> <li>- Top plate is fitted at a distance to main body so that the equipment and panel remains the cool.</li> <li>- Surface temperature from <b>ambient to 70°C</b></li> <li>- Complete with neon indicators and three core wire to work on 220 volts, single phase, 50 Hz, A.C. supply.</li> </ul> <p><b>Top Plate Size:</b></p> <ul style="list-style-type: none"> <li>- 25 X 30 cm</li> </ul>
<i>Related Services: [Insert after modifying as appropriate deleting inapplicable items from the following:]</i>		
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes, On-site installation
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Yes,

	<p><i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
9	<b>Central Stabilizing power for semen lab</b>	The Central Stabilising power unit for the semen laboratory will be 40 KW. Phase: Three Phase Power : 30 KVA TO 40 KVA Input Voltage : AS REQUIRED Output Voltage: AS REQUIRED
<i>Related Services:</i>		
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes,  <b>Scope of work:</b> Work contains design, procurement, fabrication at FSB semen processing laboratory and site work. Process design  <b>Salient Points for work execution:</b> It is the responsibility of the contractor starting from the site visit to final acceptance test of the central stabilizing power unit. The contractor shall visit the site before submitting the bid. The contractor has to arrange/provide all the necessary tools, equipment, cables, material and all other provisions required to carry out the above job.
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes Drawings preparation (including layouts) All the necessary spares and tools for future maintenance
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Yes, Complete documentation including operating manuals (Soft and Hard copies)
	<i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the</i>	<i>2 years from date of commencing</i> The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the

	<p><i>parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p>user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services. The warranty shall be for the individual components and also for the workman ship. All the defective components shall be replaced at free of cost. All the repairs shall be done at free of cost. The performance shall not be degraded after the replacement and repair.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
10	<b>Dynamic pass box</b>	<ul style="list-style-type: none"> <li>• Work area dimension in Ft:- (L x W x H) = (2'x2'x2')</li> <li>• Two stage filtration</li> <li>• Rigid and rust proof electro galvanized steel sheets, abrasion-resistant epoxy coated steel washable pre-filter (95% down to 5 micron)</li> <li>• HEPA Filter (efficacy better than 99.999% down to 0.3 micron) very low noise and vibration.</li> <li>• Double walled acrylic view panels doors with UV stabilized polycarbonate layer</li> <li>• SS handles and SS hinges, easy to clean stainless steel base mechanical /electromagnetic interlock system, Indicator on either side</li> <li>• Door release switch on either side</li> <li>• Differential pressure gauge:1 No.</li> <li>• On/Off switch for motor and lights</li> <li>• diffused fluorescent tube light (yellowish, 15W, Philips)</li> <li>• U.V. tube light (15W Philips) with Hour meter with interlocking arrangement to put off U.V. light if any of the door opens, microprocessor based controller</li> <li>• DOP Test Port</li> <li>• Pass box provided with SS angles (as per requirement during installation)</li> <li>• Test should be carried out At Site: HEPA Filter Integrity Test, Particle Count Test, Air Velocity measurement Test, Smoke Profile Test.</li> </ul>
<b>Related Services:</b>		
	a) <i>Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes
	b) <i>Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes, <i>Free supply of 2000 nos. of cuvettes and all additional software.</i>

	<p><i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i></p>	<p>Yes</p>
	<p><i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work:- Supply and fabrication and installation at Frozen Semen Bank, Cuttack</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
11	<b>Computer Assisted Sperm Analysis (CASA) System</b>	<p>Integrated Computer Assisted Sperm Analysis System (Latest version) for Bovine semen analysis with standard Bovine software.</p> <p>The system should be able to perform analysis under phase contrast, bright field and multi wavelength fluorescence for monitoring of the semen parameters in liquid and Frozen semen.</p> <p>The standard Bovine software should perform the following analysis.</p> <p><b>Counts:</b> Total, motile, progressive, %motile, %progressively motile, Rapid, medium, slow &amp; static cells.</p> <p><b>Concentration:-</b>Total motile, progressive, (million/ml), Rapid, medium, slow and static cells.</p> <p><b>Doses calculation:-</b> Total/progressive perm per dose, Dilution factors, Numbers of total/progressive doses.</p> <p><b>Mean values:-</b> VAP, VCC, VSL, Elongation, ALH, BCF, LIN, STR, elongation (head shape) and Area (head size)</p> <p><b>Distributions:-</b> VAP, VCL, VSL, Elongation, ALH, BCF, LIN, STR.</p> <p><b>Graphics:</b> - color coded tracks, plots.</p> <p>The assembly should be equipped with the computer, microscope &amp; other hardwares, and all should be inbuilt in a single unit.</p> <p>The system should be with automatic heated stage (room temperature to 45 degree Celsius), specimen sperm analysis chamber for bovine semen (both deposable slides and mackler's chamber).</p> <p>System should be equipped with suitable objectives for motility and morphology analysis and also capable of digital image acquisition of 1-20 fields.</p> <p>System should be equipped with in-built digital camera to grab images at a speed of 60 frames/sec.</p>

		<p>The software should have particle filter facility.</p> <p>The system should have the ability/ require software to view and store detailed data for individual sperm tracks to be used for validation procedures.</p> <p>The system should have in-built Fluorescent option to hide any debris/foreign materials during analysis of Frozen semen with Egg Yolk based extender.</p> <p>The system should have sperm viability assessment hardware and software to be provided for stained sperm with non-membrane permeable DNA stain and calculate viable sperm numbers under fluorescence.</p> <p>The system should provide capability for users to visualize and manually classify sperm based on gross morphology of head, mid piece and tail.</p> <p>The system should allow storage and retrieval of exact fields analyzed.</p> <p>Software should have option with user defined (customized) report.</p> <p>The sample stage should be automatic and computer controlled, provides precise control of temperature and should be able to use for manual or automatic field selection.</p> <p>The system should be supplied with suitable printer, UPS. The computer and microscope with other hardware should be inbuilt in one control Box.</p> <p>The unit should also be supplied along with all accessories and spares suitable for one year and optional rates for consumables may also be quoted.</p> <p>The unit should be supplied complete in all respects.</p>
<i>Related Services:</i>		
	<p>a) <i>Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i></p>	<p>Yes</p>

	<p><i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i></p>	<p>Yes, Free supply of 100 nos of ident and viadent cuvettes each and all additional softwares.</p>
	<p><i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i></p>	<p>Yes</p>
	<p><i>d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
12	<b>AV sterilizer</b>	<ul style="list-style-type: none"> <li>• The unit AV sterilizer is constructed of a single wall &amp; is made off thick gauze STAINLESS STEEL SHEET (18SWG/SS 304 Grade).</li> <li>• Size of the tank (in Inch) :L x B x H :- 32'' x 20'' x 21''.</li> <li>• Size of the inner tray (in Inch) :- L x B = 30'' x 19''.</li> <li>• The joints of the unit will be closed with the help of ARGON ARC WELDING, in order to make the shell leakage proof.</li> <li>• The unit is provided with water immersion type heating element.</li> <li>• The bottom portion of the unit will be provided with heavy duty castor wheels for easy movement of the tank.</li> <li>• The unit will be provided with drain out facility.</li> <li>• The unit will be fitted with 0-120 minutes Mechanical timer &amp; is completed with the help of a chord &amp; a plug.</li> <li>• The unit is suitable to work on 230Volt, 50 Hz, AC supply.</li> </ul>
<b>Related Services:</b>		
	a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods	Yes
	b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods	Yes, .
	c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods	Yes
	d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract	2 years from date of commencing The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must

		<p>be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>	
13	<b>Air shower</b>	Particulars External dimensions (mm) Internal dimensions (mm) Material for case Suitable for person Blow power (W) Hepa filter dimension (mm) Nozzle dimension (mm) Air shower time (Second) Spurt wind speed Voltage HEPA filter efficiency Control system	Specification 1400x1700x2100 1000x1400x1950 Cold rolled steel powder coated 02 2500 670x670x77 (two piece) 30 0-99 (adjustable) 25m/sec (+/-20%) 220V/50hz/3Phase Above 99.99% on 0.3micron particles LCD control panel, Electronic interlock & automatic blowing
<b>Related Services:</b>			
	<i>a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods</i>	Yes	
	<i>b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods</i>	Yes, .	
	<i>c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods</i>	Yes	

<p>d) <i>Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract</i></p>	<p><i>2 years from date of commencing</i></p> <p>The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
<p>e) <i>Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b></p>

<b>Item No</b>	<b>Name of Goods or Related Service</b>	<b>Technical Specifications and Standards</b>
14	<b>Water purifying equipment</b>	<ol style="list-style-type: none"> <li>1. System should produce [ASTM Type 1] and analytical grade (ASTM D1193 - 06(2018)) water directly from tap water feed.</li> <li>2. System feed water: Potable (as per WHO, EC, EPA and ISO) tap water- <ol style="list-style-type: none"> <li>a. Conductivity: 10- 1950 <math>\mu\text{S}/\text{cm}</math> @ 25°C</li> <li>b. Hardness: &lt; 295 ppm (as <math>\text{CaCO}_3</math>)</li> <li>c. pH: 4.5 to 10</li> <li>d. Fouling Index: upto 12</li> <li>e. Temperature: 2- 35 °C</li> <li>f. Free Chlorine: upto 2.9 ppm</li> </ol> </li> <li>3. System should include a OEM made pre-filter to take care feed water with TDS as high as 5000 ppm &amp; SDI up to 50.</li> <li>4. Iron Removal Filter must be from OEM and having the backwash and rinse facility, capacity should be upto 400 L/Hr and which can take care up-to 4 ppm of Iron contamination.</li> <li>5. Main System should contain three Stage pre-treatment cartridge, include silver imprinted activated carbon which prevents the proliferation of Bacteria present in tap water and anti-scaling compound compounds must to eliminate hardness and protect the RO membrane against oxidation, scaling and plugging.</li> <li>6. High flux thin film composite polyamide RO membrane (MW&gt;200 Dalton) with 95- 99% rejection</li> <li>7. RO pressure, RO water quality, RO membrane efficiency (% ion rejection) should be seen on display</li> <li>8. Conductivity cells before and after the RO Membrane and should have high recovery loop with capillary tube and diaphragm valve to reduce the wastage of feed water.</li> <li>9. Auto regenerated Electro deionization module with Carbon beads at cathode.</li> <li>10. EDI (Electro-deionisation) module should not require softening pre-treatment.</li> </ol>

		<ol style="list-style-type: none"> <li>11. Coaxial resistivity cell with <math>0.01\text{cm}^{-1}</math> cell constant for optimum measurement accuracy as required by ASTM® D 1125-95 and comply USP &lt;645&gt;</li> <li>12. To avoid maintenance errors and to improve traceability, the internal water purification cartridges should have a built-in RFID [Radio Frequency identification] tag.</li> <li>13. Large built-in display with Auto diagnostic facility ensures real time various Error Number and Alarm Code for complete traceability.</li> <li>14. 50L reservoir with air sanitization kit to store product ensuring the water quality</li> <li>15. Optional data management and monitoring software ensure real time data reliability, traceability, and access to system history, needed for various world class accreditations.</li> <li>16. To ensure water quality minimum 3 Nos of conductivity and resistivity cell</li> <li>17. Application Specific cartridges to remove ionic and organic contaminants to trace levels</li> <li>18. Cartridge must attach to the water system without threaded fittings, screws, clamps, or locking tabs</li> <li>19. Optional 17watt, low pressure mercury vapor lamp made of ultrapure quartz with dual wavelength (185 and 254nm). The lamp has an electro polished 316L ss housing</li> <li>20. To prevent deterioration of water quality during periods of non-use, the ultrapure water system will be able to recirculate water to maintain high water quality.</li> <li>21. Auto regenerated Electro deionization module with Carbon beads at cathode.</li> <li>22. Optional point of delivery unit with       <ol style="list-style-type: none"> <li>a. Adjustable height and rotating arm-adjustable to any glassware.</li> <li>b. Multi-color monitor displaying: resistivity, level of water in reservoir, volume dispensed and other alarms, to be directly accessible from the point of delivery unit</li> </ol> </li> <li>23. Point of delivery unit with the polishing filters</li> </ol>
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		<p>at the point of use. Final Filters Options:</p> <ol style="list-style-type: none"> <li>Pharmaceutical grade, final filter with 0.22micron membrane filter in stack disc configuration,</li> <li>UF cartridge at the collection end with LRV is between 5.6 and 7.65 over challenge range of 220 and 22000 Eu / mL.</li> <li>VOC Pak to remove volatile organics.</li> <li>LC pak very specific for trace organic applications.</li> </ol> <p><b><u>Product water quality(type II) (Analytical grade):</u></b></p> <p>Resistivity: 10.5-14.5M<math>\Omega</math>cm@25°C  TOC: &lt; 30ppb  Product water delivery: 3-4L/hr  Silica Rejection: &gt; 99.9%</p> <p><b><u>Product water quality(ASTMtype I)</u></b></p> <p>Resistivity: 18.2M<math>\Omega</math>cm@25°C  TOC: &lt; 8 – 10ppb  Bacteria: &lt;0.1cfu/ml  Product water delivery: &gt; 1.5-2L/min  Pyrogen levels(EU/mL): &lt; 0.001  RNase Level(ng/mL): &lt; 0.01  DNase Level(pg/<math>\mu</math>L): &lt; 4</p>
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**Related Services:**

	a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods	Yes
	b) Furnishing of tools required for assembly and/or maintenance of the supplied Goods	Yes,
	c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods	Yes
	d) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract	2 years from date of commencing The concern should have experience of installing successfully same systems in India during last 3 years, for which necessary documents must be attached. The satisfactory working

		<p>report from the user should also be attached.</p> <p>The manufacturer should have their services centre in India to provide after sales services.</p>
	<p><i>e) Training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods</i></p>	<p>Yes</p> <p><b>Scope of work:- Supply and installation at Frozen Semen Bank, Cuttack</b></p>

#### 4. Drawings

<b>List of Drawings</b>		
<b>DRAWING NR.</b>	<b>Drawing Name</b>	<b>Purpose</b>
1	<p><b>Cryogenic Vacuum Jacketed line-</b> Design and sizing of the lines as per the flow, temperature and pressure requirements</p> <p><b>Insulated line-</b> Design and sizing of the lines as per the flow, temperature and pressure requirements.</p> <p><b><u>The successful bidder shall submit the design details after being approved by the competent authority &amp; works will be taken up accordingly.</u></b></p>	Installation of semi automatic LN2 distribution system covering semen lab and semen dispatch section.

## **5. INSPECTIONS AND TESTS**

The following inspections and tests shall be performed:

- For semi automatic Liquid Nitrogen distribution System the successful bidder will arrange the inspection by Deputy Chief Controller of Explosives, Department of Petroleum Policy & Promotion, Govt. of India, Bhubaneswar after commissioning.
- For power stabilizing unit for Semen Lab. the successful bidder will arrange the inspection by Executive Engineer, CESU, Cuttack after commissioning.
- For all lab equipments a technical committee headed by Project Coordinator will make inspection of goods.

**6. PROFORMA OF CERTIFICATE FOR ISSUE BY THE PURCHASER AFTER SUCCESSFUL INSTALLATION AND STARTUP OF THE SUPPLIED GOODS**

*[This is to be attached for supply, erection, supervision of erection and startup contracts only]*

No.

Date:

M/s.

Sub: Certificate of startup of the supplied Goods

1. This is to certify that the plant/s as detailed below has/have been received in good condition along with all the standard and special accessories (subject to remarks in Para No. 2) and a set of spares in accordance with the Contract/Specifications. The same has been installed and commissioned.

(a) Contract No. \_\_\_\_\_ dated \_\_\_\_\_

(b) Description of the plant \_\_\_\_\_

(c) Plant Nos. \_\_\_\_\_

(d) Quantity \_\_\_\_\_

(e) Rail/Roadways Receipt No.  
\_\_\_\_\_ dated \_\_\_\_\_

(f) Name of the consignee \_\_\_\_\_

(g) Date of start up and proving test \_\_\_\_\_

2. Details of accessories/spares not yet supplied and recoveries to be made on that account.

<u>S. No.</u>	<u>Description</u>	<u>Amount to be recovered</u>
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3. The proving test has been done to our entire satisfaction and operators have been trained to operate the plant.

4. The supplier has fulfilled his contractual obligations satisfactorily. \*

or

The supplier has failed to fulfill his contractual obligations with regard to the following:

- (a)
  - (b)
  - (c)
  - (d)
5. The amount of recovery on account of non-supply of accessories and spares is given under Para No. 2.
6. The amount of recovery on account of failure of the supplier to meet his contractual obligations is as indicated in endorsement of the letter.

Signature \_\_\_\_\_

Name \_\_\_\_\_

Designation with Stamp \_\_\_\_\_

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\* Explanatory notes for filling up the certificates:

- (a) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to Technical Specifications.
- (b) He has supervised the startup of the plan in time i.e., within the period specified in the contract from the date of intimation by the Purchaser in respect of the installation of the plant.
- (c) Training of personnel has been done by the supplier as specified in the contract
- (d) In the event of documents/drawings having not been supplied or installation and startup of the plant have been delayed on account of the supplier, the extent of delay should always be mentioned.

**7. PERFORMA FOR PERFORMANCE STATEMENT**

[Please see ITB Clause 38.2 and Section III-  
Evaluation and Qualification Criteria]

Proforma for Performance Statement (for a period of last five years)

Bid No. \_\_\_\_\_ Date of opening \_\_\_\_\_ Time \_\_\_\_\_  
\_\_\_\_\_ Hours

Name of the Firm \_\_\_\_\_

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered equipment	Value of order	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)
				As per contract	Actual		
1	2	3	4	5	6	7	8

Signature and seal of the Bidder

\_\_\_\_\_

**8. DECLARATION FOR CLAIMING EXCISE DUTY EXEMPTION**

**Not required**

**PART 3 – CONTRACT**

**SECTION VII – GENERAL CONDITIONS OF CONTRACT**

## **Section VII. General Conditions of Contract**

### **Table of Clauses**

1.	DEFINITIONS .....	98
2.	CONTRACT DOCUMENTS .....	99
3.	FRAUD AND CORRUPTION .....	99
4.	INTERPRETATION .....	101
5.	LANGUAGE .....	102
6.	DELETED .....	102
7.	ELIGIBILITY .....	102
8.	NOTICES.....	102
9.	GOVERNING LAW .....	103
10.	SETTLEMENT OF DISPUTES .....	103
11.	INSPECTIONS AND AUDIT BY THE BANK .....	103
12.	SCOPE OF SUPPLY.....	104
13.	DELIVERY AND DOCUMENTS .....	104
14.	SUPPLIER'S RESPONSIBILITIES .....	104
15.	CONTRACT PRICE.....	104
16.	TERMS OF PAYMENT .....	104
17.	TAXES AND DUTIES.....	104
18.	PERFORMANCE SECURITY.....	105
19.	COPYRIGHT.....	105
20.	CONFIDENTIAL INFORMATION .....	105
21.	SUBCONTRACTING .....	106
22.	SPECIFICATIONS AND STANDARDS.....	107
23.	PACKING AND DOCUMENTS .....	107
24.	INSURANCE .....	108
25.	TRANSPORTATION .....	108
26.	INSPECTIONS AND TESTS .....	108
27.	LIQUIDATED DAMAGES.....	109
28.	WARRANTY .....	109
29.	PATENT INDEMNITY.....	110
30.	LIMITATION OF LIABILITY .....	112
31.	CHANGE IN LAWS AND REGULATIONS .....	112
32.	FORCE MAJEURE.....	112
33.	CHANGE ORDERS AND CONTRACT AMENDMENTS.....	113
34.	EXTENSIONS OF TIME .....	114
35.	TERMINATION .....	114
36.	ASSIGNMENT .....	115

## **Section VII. General Conditions of Contract**

### **1. Definitions**

The following words and expressions shall have the meanings hereby assigned to them:

- (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- (e) “Day” means calendar day.
- (f) “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) “GCC” means the General Conditions of Contract.
- (h) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (i) “Purchaser’s Country” is India.
- (j) “Purchaser” means the entity purchasing the Goods and Related Services, as specified in the **SCC**.
- (k) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, start-up, training and initial maintenance

and other such obligations of the Supplier under the Contract.

- (l) “SCC” means the Special Conditions of Contract.
- (m) “Subcontractor” means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
- (n) “Supplier” means the natural person, private or government entity, or a combination of the above, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
- (o) “The Project Site,” where applicable, means the place named in the **SCC**.

**2. Contract Documents**

2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

**3. Fraud and Corruption**

3.1 If the Purchaser determines that the Supplier or its agents (whether declared or not), sub-contractors, sub-consultants, service providers, and any personnel thereof has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Purchaser may, after giving 14 days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 35 shall apply as if such termination had been made under Sub-Clause 35.1.

(a) For the purposes of this Sub-Clause:

- (i) “corrupt practice” is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party ;
- (ii) “fraudulent practice” is any act or omission, including a misrepresentation, that

knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation ;

(iii) “collusive practice” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party ;

(iv) “coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party ;

(v) “obstructive practice” is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or

(bb) acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under Clause 11 [Inspections and Audits by the Bank].

3.2 Should the Supplier or its agents (whether declared or not), sub-contractors, sub-consultants, service providers, and any personnel thereof be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice, the Bank will sanction a firm or individual, at any time, in accordance with prevailing Bank’s sanctions procedures, including by publicly declaring such firm or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Bank-financed contract; and (ii) to be a nominated sub-contractor, consultant, supplier or services provider of an otherwise eligible firm being awarded a Bank-financed contract.

**4. Interpretation** 4.1 If the context so requires it, singular means plural and vice versa.

4.2 Incoterms

(a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties there under shall be as prescribed by Incoterms.

(b) The terms EXW and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the **SCC** and published by the International Chamber of Commerce in Paris, France.

4.2 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.3 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.4 Non waiver

(a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

#### 4.5 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

### 5. Language

5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be English. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in English language, in which case, for purposes of interpretation of the Contract, this translation shall govern.

5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

### 6. Deleted

### 7. Eligibility

7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.

7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

### 8. Notices

8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the **SCC**. The term "in writing" means communicated in written form with proof of receipt.

8.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

- 9. Governing Law**
- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Union of India.
- 10. Settlement of Disputes**
- 10.1 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.
- 10.2 If, after twenty-eight (28) 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 hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC.**
- 10.3 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 monies due the Supplier.
- 11. Inspections and Audit by the Bank**
- 11.1 The Supplier shall permit the Bank and/or persons appointed by the Bank to inspect the Supplier's offices and/or the accounts and records of the Supplier and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors appointed by the Bank if required by the Bank. The Supplier's attention is drawn to Clause 3, which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under Sub-Clause 11.1 constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility under the Procurement Guidelines).

- 12.Scope of Supply** 12.1 The Goods and Related Services to be supplied shall be as specified in the Special Condition of Contract.
- 13.Delivery and Documents** 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are specified in the **SCC**.
- 14.Supplier's Responsibilities** 14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
- 15.Contract Price** 15.1 Prices charged by the Supplier for the Goods supplied and the Related 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 the **SCC**.
- 16.Terms of Payment** 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the **SCC**.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The payments shall be made in Indian Rupees to the Supplier under this Contract.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period set forth in the **SCC**, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the **SCC**, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 17.Taxes and Duties** The Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

**18. Performance Security**

- 18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount specified in the **SCC**.
- 18.2 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.
- 18.3 As specified in the SCC, the Performance Security shall be denominated in the Indian Rupees, and shall be in one of the format stipulated by the Purchaser in the **SCC**, or in another format acceptable to the Purchaser.
- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in the **SCC**.

**19. Copyright**

- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party

**20. Confidential Information**

- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.

20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:

- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
- (b) now or hereafter enters the public domain through no fault of that party;
- (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
- (d) Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.

20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.

20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

**21.Subcontracting** 21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the bid. Such notification, in the original bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.

21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

- 22. Specifications and Standards**
- 22.1 Technical Specifications and Drawings
- (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.
  - (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
  - (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

- 23. Packing and Documents**
- 23.1 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. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, 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.
- 23.2 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 the **SCC**, and in any other instructions ordered by the Purchaser.

- 24. Insurance** 24.1 Unless otherwise specified in the **SCC**, the Goods supplied under the Contract shall be fully insured—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC**.
- 25. Transportation** 25.1 Unless otherwise specified in the **SCC**, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
- 26. Inspections and Tests**
- 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in the **SCC**.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as specified in the **SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.
- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test

and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

## **27. Liquidated Damages**

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the **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 those **SCC**. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

## **28. Warranty**

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

- 28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 28.3 Unless otherwise specified in the **SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the **SCC**, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.
- 28.5 Upon receipt of such notice, the Supplier shall, within the period specified in the **SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 28.6 If having been notified, the Supplier fails to remedy the defect within the period specified in the **SCC**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

**29. Patent  
Indemnity**

- 29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing,

specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

**30. Limitation of Liability**

30.1 Except in cases of criminal negligence or willful misconduct,

(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, or to any obligation of the supplier to indemnify the purchaser with respect to patent infringement

**31. Change in Laws and Regulations**

31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in India, where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

**32. Force Majeure**

32.1 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.

32.2 For purposes of this Clause, "Force Majeure" means an

event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition 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.

**33. Change  
Orders and  
Contract  
Amendments**

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to 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 shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 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 in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 Subject to the above, no variation in or modification of

the terms of the Contract shall be made except by written amendment signed by the parties.

**34. Extensions of Time**

34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. 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, in which case the extension shall be ratified by the parties by amendment of the Contract.

34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

**35. Termination**

35.1 Termination for Default

(a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:

(i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;

(ii) if the Supplier fails to perform any other obligation under the Contract; or

(iii) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 3, in competing for or in executing the Contract.

(b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related

Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

### 35.2 Termination for Insolvency.

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

### 35.3 Termination for Convenience.

(a) The Purchaser, by 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.

(b) The Goods that are complete and ready for shipment within twenty-eight (28) 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:

(i) to have any portion completed and delivered at the Contract terms and prices; and/or

(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

## **36. Assignment**

36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

## SECTION VIII. SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

<b>GCC 1.1(j)</b>	The Purchaser is: The Chief Executive Officer Odisha Livestock Resources Development Society (OLRDS) Bhubaneswar
<b>GCC 1.1 (o)</b>	The Project Site(s)/Final Destination(s) is Office of the Joint Director Frozen Semen Bank At :- Khapuria Po:- Madhupatna Cuttack Dist :- Cuttack Odisha, India PIN :- 753010
<b>GCC 4.2 (a)</b>	The meaning of the trade terms shall be as prescribed by Incoterms.
<b>GCC 4.2 (b)</b>	The version edition of Incoterms shall be 2010.
<b>GCC 8.1</b>	For <b><u>notices</u></b> , the Purchaser's address shall be:  The Chief Executive Officer Odisha Livestock Resources Development Society (OLRDS) OBPI Campus At :- Siripur PO:- Suryanagar Bhubaneswar State :- Odisha, India PIN :- 751003

**GCC 10.2****Settlement of Disputes**

The dispute settlement mechanism to be applied shall be as follows:

- (a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the institution of Engineers (India)
- (b) In the case of a dispute with a Foreign Supplier, the dispute shall be settled in accordance with provisions of UNCITRAL (United nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties, and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India).
- (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the \*Indian Council of Arbitration/president of the Institution of Engineers (India)/The International Centre for Alternative Dispute Resolution (India), both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of the order of the President of the Institution of Engineers (India) making such an appointment shall be furnished to each of the parties.

	<p>(d) Arbitration proceedings shall be held at BHUBANESWAR, ODISHA India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.</p> <p>(e) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.</p> <p>(f) Where the value of the contract is Rs. 10 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely the /President of the Institution of Engineers (India).</p> <p>(g) Except otherwise agreed to by the Parties, Arbitrators should give a decision in writing within 120 days of receipt of notification of dispute</p>
<b>GCC 12.1</b>	The scope of supply for the Goods and Related Services shall to be supplied be as per Schedule of Requirement and schedule of services.

<p><b>GCC 13.1</b></p>	<p>Details of Shipping and other Documents to be furnished by the Supplier are given below:</p> <p>GCC 13.1 Upon delivery of the goods to the transporter/consignee, the supplier shall notify the purchaser and mail the following documents to the Purchaser :</p> <ul style="list-style-type: none"> <li>(i) 03 (Three) Copies of the Supplier invoice showing contract number, goods description, quantity, unit price, total amount;</li> <li>(ii) Delivery note, Railway receipt, or Road consignment note or equivalent transport document or acknowledgement of receipt of goods from the Consignee;</li> <li>(iii) 02 (Two) Copies of packing list identifying contents of each package;</li> <li>(iv) Insurance certificate;</li> <li>(v) Manufacturer's/Supplier's warranty certificate;</li> <li>(vi) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and</li> </ul> <p>The above documents shall be received by the Purchaser before arrival of the Goods (except where it is handed over to the Consignee with all documents) and if not received, the supplier will be responsible for any consequent expenses.</p>
<p><b>GCC 15.1</b></p>	<p>The prices charged for the Goods supplied and the related Services performed shall <i>not be</i> adjustable.</p>

<p><b>GCC 16.1</b></p>	<p>GCC 16.1 Payment shall be made in Indian Rupees in the following manner:</p> <ul style="list-style-type: none"> <li>(i) <i>On Delivery:</i> Eighty (80)% of the contract price shall be paid through Cheque on receipt of Goods and upon submission of the documents specified in Clause 13 of SCC; and</li> <li>(ii) <i>On Final Acceptance:</i> The remaining ten (20)% of the Contract Price shall be paid within thirty (30) days after the date of the Acceptance Certificate issued by the Purchaser's representative in the proforma given in Section VI - item 6 &amp; payment will be made through Cheque.</li> </ul>
	<p>The supervision charges and the to-and-fro travel charges shall not be paid by the purchaser.</p> <p>Taxes such as GST will be paid by the supplier.</p>
	<p>For all the payments to be made, against Bank guarantees, the bank guarantee shall be issued by a Scheduled Indian Bank located in India in the format enclosed at Section VIII.</p>
<p><b>GCC 16.5</b></p>	<p>Deleted</p>
<p><b>GCC 17</b></p>	<p>Deleted</p>
<p><b>GCC 18.1</b></p>	<p>Performance Security to the Purchaser shall be for an amount of 5% of the contract value, valid upto 60 days after the date of completion of performance obligations including warranty obligations.</p> <p>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 12 months and the Performance Bank guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.</p>

<b>GCC 18.3</b>	If required, the Performance Security shall be in the form of a “Bank Guarantee” or crossed demand draft or pay order” drawn in favour of the Purchaser.
<b>GCC 18.4</b>	Discharge of the performance Security shall take place not later than 60 days following the date of completion of the Supplier’s performance obligations, including the warranty obligation, under the contract.
<b>GCC 18.5</b>	<p>Add as Clause 18.5 to the GCC the following:</p> <p>In the event of any contractual amendment, the Supplier shall, within 28 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.</p>
<b>GCC 23.2</b>	<p><u>Packing Instructions:</u> 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 with the following:</p> <p>(i) Project; (ii) Contract No.; (iii) Country of Origin of Goods; (iv) Supplier’s Name; (v) Packing List Reference Number.</p> <p>Suppliers should use recycled materials as much as possible for packing</p>
<b>GCC 24.1</b>	The insurance shall be paid in an amount equal to 110 percent of the EXW value of the Goods from “Warehouse to warehouse (final destination)” on “All Risks” basis including War Risks and Strikes. <b><u>The insurance shall be paid by the supplier.</u></b>
<b>GCC 25.1</b>	The Supplier is required under the Contract to transport the Goods duly insured to the specified final destination, and all related costs shall be included in the Contract Price.

<b>GCC 26.1</b>	<p>The inspections and tests shall be:</p> <ul style="list-style-type: none"> <li>• For semi automatic Liquid Nitrogen distribution System the successful bidder will arrange the inspection by Deputy Chief Controller of Explosives, Department of Petroleum Policy &amp; Promotion, Govt. of India, Bhubaneswar after commissioning.</li> <li>• For power stabilizing unit for Semen Lab. the successful bidder will arrange the inspection by Executive Engineer, CESU, Cuttack after commissioning.</li> <li>• For all lab equipments a technical committee headed by Project Coordinator will make inspection of goods.</li> </ul>
<b>GCC 26.2</b>	<p>The Inspections and tests shall be conducted at: <i>[insert name(s) of location(s)]</i>  Office of the Joint Director  Frozen Semen Bank  At :- Khapuria  Po:- Madhupatna  Cuttack  Dist :- Cuttack  Odisha, India  PIN :- 753010</p>
<b>GCC 27.1</b>	<p>The liquidated damage shall be: 0.5% of contract price per week or part thereof.</p>
<b>GCC 27.2</b>	<p>The maximum amount of liquidated damages shall be: 10% of the contract price.</p>

<p><b>GCC 28.3</b></p>	<p>The period of validity of the Warranty shall be: Two years after successful installation at project site. (Same as given in GCC 28.3.)</p> <p>For purposes of the Warranty, the place(s) of final destination(s) shall be:</p> <p>Office of the Joint Director  Frozen Semen Bank  At :- Khapuria  Po:- Madhupatna  Cuttack  Dist :- Cuttack  Odisha, India  PIN :- 753010</p>
<p><b>GCC 28.5</b></p>	<p>The period for repair or replacement shall be: 15 days.</p>
<p><b>GCC 31.1</b></p>	<p>Deleted</p>

**Attachment: Price Adjustment Formula**

Not Applicable

**SECTION IX – CONTRACT FORMS**

**Table of Forms**

1. CONTRACT AGREEMENT ..... 126

2. PERFORMANCE SECURITY ..... 128

3. BANK GUARANTEE FOR ADVANCE PAYMENT ..... 129

## 1. CONTRACT AGREEMENT

*[The successful Bidder shall fill in this form in accordance with the instructions indicated]*

THIS CONTRACT AGREEMENT is made

the *[ insert: **number** ]* day of *[ insert: **month** ], [ insert: **year** ]*.

BETWEEN

- (1) *[ insert complete name of Purchaser ], a [ insert description of type of legal entity, for example, an agency of the Ministry of .... of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser } ] and having its principal place of business at [ insert address of Purchaser ] (hereinafter called “the Purchaser”), and*
- (2) *[ insert name of Supplier ], a corporation incorporated under the laws of [ insert: country of Supplier ] and having its principal place of business at [ insert: address of Supplier ] (hereinafter called “the Supplier”).*

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of *[insert Contract Price in words and figures, expressed in the Contract currency(ies) ]* (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:
  - (a) This Contract Agreement
  - (b) Special Conditions of Contract
  - (c) General Conditions of Contract
  - (d) Technical Requirements (including Schedule of Requirements and Technical Specifications)
  - (e) The Supplier’s Bid and original Price Schedules
  - (f) The Purchaser’s Notification of Award

(g) *[Add here any other document(s)]*

3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
4. 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.
5. 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 whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: *[insert signature]*  
in the capacity of *[ insert title or other appropriate designation ]*  
in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier

Signed: *[insert signature of authorized representative(s) of the Supplier]*  
in the capacity of *[ insert title or other appropriate designation ]*  
in the presence of *[ insert identification of official witness]*

## 2. PERFORMANCE SECURITY

*[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]*

Date: *[insert date (as day, month, and year) of Bid Submission]*

ICB No. and title: *[insert no. and title of bidding process]*

Bank's Branch or Office: *[insert complete name of Guarantor]*

**Beneficiary:** *[insert complete name of Purchaser]*

**PERFORMANCE GUARANTEE No.:** *[insert Performance Guarantee number]*

We have been informed that *[insert complete name of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert day and month]*, *[insert year]* with you, for the supply of *[description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a Performance Guarantee is required.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum(s) not exceeding *[insert amount(s)<sup>3</sup> in figures and words]* upon receipt by us of your first demand in writing declaring the Supplier to be in default under the Contract, without cavil or argument, or your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This Guarantee shall expire no later than the *[insert number]* day of *[insert month]* *[insert year]*,<sup>4</sup> and any demand for payment under it must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

*[signatures of authorized representatives of the bank and the Supplier]*

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<sup>3</sup> The Bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

<sup>4</sup> Dates established in accordance with Clause 17.4 of the General Conditions of Contract ("GCC"), taking into account any warranty obligations of the Supplier under Clause 15.2 of the GCC intended to be secured by a partial Performance Guarantee. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the Bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, the Purchaser might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed *[six months]* *[one year]*, in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee."

### 3. BANK GUARANTEE FOR ADVANCE PAYMENT

*[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]*

Date: *[insert date (as day, month, and year) of Bid Submission]*  
ICB No. and title: *[insert number and title of bidding process]*

*[bank's letterhead]*

**Beneficiary:** *[insert legal name and address of Purchaser]*

**ADVANCE PAYMENT GUARANTEE No.:** *[insert Advance Payment Guarantee no.]*

We, *[insert legal name and address of bank]*, have been informed that *[insert complete name and address of Supplier]* (hereinafter called "the Supplier") has entered into Contract No. *[insert number]* dated *[insert date of Agreement]* with you, for the supply of *[insert types of Goods to be delivered]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[insert amount(s)<sup>5</sup> in figures and words]* upon receipt by us of your first demand in writing declaring that the Supplier is in breach of its obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account *[insert number and domicile of the account]*

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until *[insert date<sup>6</sup>]*.

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<sup>5</sup> The bank shall insert the amount(s) specified in the SCC and denominated, as specified in the SCC, either in the currency (ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

<sup>6</sup> Insert the Delivery date stipulated in the Contract Delivery Schedule. The Purchaser should note that in the event of an extension of the time to perform the Contract, the Purchaser would need to request an extension of this Guarantee from the bank. Such request must be in writing and must be made prior to the expiration date established in the Guarantee. In preparing this Guarantee, the Purchaser might consider adding the following text to the Form, at the end of the penultimate paragraph: "We agree to a one-time extension of this Guarantee for a period not to exceed [six months][one year], in response to the Purchaser's written request for such extension, such request to be presented to us before the expiry of the Guarantee."

This Guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

**Notes:**

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1. The most current listing of eligible countries can be viewed on the Public Information Center's Web page at:  
<http://www.worldbank.org/html/pic/PROCURE.html>. A list of firms debarred from participating in World Bank projects is available at:  
<http://www.worldbank.org/html/opr/procure/debarr.html>.
2. Any questions regarding this list should be addressed to the Senior Manager, Procurement Policy and Services Group, Operational Core Services Network, The World Bank