

**Tender No. 4/2023-24/AH&V**

**NOTICE INVITING  
OPEN TENDER (TURNKEY) FOR  
ESTABLISHMENT  
OF  
BOAR SEMEN STATION  
at  
Hnahthial, Hnahthial District**



- A. Design and construction of boar pen, biosecurity changing room cum bathroom, feed godown, semen collection room, laboratory, biosecurity fencing etc.
- B. Supply, installation and commissioning of laboratory, scientific machinery and equipments, consumable items etc.

**Department of Animal Husbandry & Veterinary  
Government of Mizoram**

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### C. LETTER OF INVITATION

The Director, Animal Husbandry & Veterinary Department, Mizoram, Aizawl on behalf of the Governor of Mizoram invites OPEN TENDER (TURNKEY) [Tender No.1/2023-24/AH&V] in a two bid system [Technical bid & Financial bid in two separate sealed envelopes kept together in one large sealed envelope] for the project entitled **“Establishment of Boar Semen Station at Hnahthial, Hnahthial District”** on turnkey basis.

The Tender documents containing the details of information to bidders, terms of reference, bid evaluation criteria, formats for technical and financial proposals etc will be available for purchase on Dt. 23rd May, 2023 (Tuesday) from Planning & Monitoring Section, Directorate of AH&Vety Department, Khatla, Aizawl during Office working hours. The Cost of Tender No.1/2023-24/AH&V document is Rs. 1,500/-

Bid documents maybe submitted to sealed tender box at the office chamber of the Director, Animal Husbandry & Veterinary, Khatla, Aizawl by Dt.26<sup>th</sup> June, 2023 (Monday), 12:00 noon in sealed envelope in prescribed format containing earnest money (refundable) i.e., 2% of the estimated cost in a technical bid envelope only by way of Demand Draft/Bankers Cheque in favour of **Director, Animal Husbandry & Veterinary Department, Govt. of Mizoram**, payable at Aizawl. All the critical dates are mentioned below. Queries if any, may be referred in writing to the below mentioned address or telephone number 9436151944 or Email: [drdingtea@gmail.com](mailto:drdingtea@gmail.com).

You are also informed to attend the Pre-bid Conference on 30th May, 2023 (Tuesday) at 11:00 AM in the Directorate Conference Hall, Directorate of Animal Husbandry & Veterinary Department, Khatla, Aizawl without fail.

#### Critical Dates

Tender publishing date	23.5.2023
Pre-bid conference date	30.5.2023
Last date of Bid submission	26.6.2023
Technical Bid opening date	26.6.2023
Financial Bid opening date	28.6.2023

(Dr. LALRINPUII SAILO)

Director

Animal Husbandry & Veterinary Department  
Government of Mizoram

## **B. INSTRUCTION TO BIDDERS**

1. Abbreviation used in this documents are:
  - AHVD = Animal Husbandry & Veterinary Department
  - EMD = Earnest Money Deposit
2. Bidders are advised to study this Tender document carefully before participating. It shall be deemed that submission of bid by the Bidder has been done after their careful study and examination of the Tender documents with full understanding to its implications. Any lack of information shall not in any way relieve the bidders of his responsibility to fulfil his obligations under the Bid.
3. Bidder shall bear all costs associated with the preparation and submission of the Bid including surveys (if required), and AHVD will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
4. Bidder is expected to examine all instructions, forms, terms, specifications, and other information in the Tender document. Failure to furnish all information required by the Tender document or to submit a Bid not substantially responsive to the Tender document in every respect will be at Bidder's risk and may result in the rejection of its Bid.
5. The bid prepared by the bidder, as well as all correspondence and documents relating to the Bid exchanged between the bidder and the AHVD, shall be in English. Supporting documents and printed literature furnished by the bidder may be in another language provided they are accompanied by an accurate translation by AHVD certified / approved translator of the relevant pages in English. For the purposes of interpretation of the bid, the translation shall govern. Information supplied in another language without proper translation shall be rejected.
6. The bidder should submit a design, drawing and estimate of a the civil works involved along with their technical bid.
7. The bidders should submit bid documents in a sealed tender box kept at the office chamber of Director, Animal Husbandry & Veterinary, Khatla, Mizoram.

8. The Technical Bid Envelope shall be superscripted as **“Establishment of Boar Semen Station at Hnahthial, Hnahthial District – Technical Bid”** Envelope No. 1 along with Name and Address of the bidder at the bottom right corner. Failure to do so shall be subjected to rejection of the bid.
9. The Technical Bid should be accompanied by Bid security/gzEMD i.e., 2% of the estimated value only by way of Demand Draft/Bankers Cheque in favour of **Director, Animal Husbandry & Veterinary Department, Govt. of Mizoram, payable at Aizawl.**
10. The financial bid envelope i.e., Envelope No. 2 which shall be superscripted as **“Establishment of Boar Semen Station at Hnahthial, Hnahthial District – Financial Bid”** along with Name and Address of the bidder at the bottom right corner. Failure to do so shall be subjected to rejection of the bid.
11. At any time prior to the deadline (or as extended by AHVD) for submission of bids, AHVD, for any reason, whether at its own initiative or in response to clarifications requested by prospective bidder may modify the Tender document by issuing amendment(s).
12. All bidders will be notified of the amendment(s) by publishing on the websites, and these will be binding on them.
13. In order to allow bidders a reasonable time to take the amendment(s) into account in preparing their bids, AHVD, at its discretion, may extend the deadline for the submission of bids.
14. The bid shall remain **valid for 180 days** from the date of Technical Bid Opening being specified. Bidder should ensure that in all circumstances, its Bid fulfils the validity condition. Any bid valid for a shorter period shall be rejected as non-responsive.
15. In exceptional circumstances, AHVD may solicit bidder’s consent to an extension of the period of validity. The request and the responses thereto shall be made in writing or by Fax. Bid Security shall also be suitably extended. A bidder granting the request is neither required nor permitted to modify the bid.
16. Late bids i.e. bids received after the specified date and time of receipt should not be considered.

## **C. TERMS OF REFERENCE**

In most of the villages of Mizoram and surrounding areas, there are one or two Breeding boars which services the entire sow population of the area. As a result of this the same boar is often used to service their own off-springs resulting in inbreeding. The inbreeding effects like atresia-ani, stunted growth, genital defects are often seen in villages where there is a single breeding boar which are often kept for 5-6 years. To induce hybrid vigor and to prevent the unwanted traits of inbreeding, Artificial insemination should be introduced where high genetic germplasm can be introduced in the pig population of the area.

Mizoram is having a well established Regional Boar Semen Collection Centre and Satellite Boar Semen Collection Stations in various districts. Artificial insemination of pigs have been practiced successfully in the areas where these stations can cover. However, since the Boar semen cannot be stored for longer period of time as Frozen semen technology is not yet successful like ruminants, Satellite Boar semen station is proposed to be established in some remote Blocks of the state so that high performing germplasm can be introduced in pig population of remote areas of the state which will in the mean time reduce the chances of inbreeding and the spread of sexually transmissible diseases.

For this purpose the Large White Yorkshire is a breed of choice which has been proven for its adaptability and high performance in Mizoram.

### **1. Aims & Objectives:**

- (i) Increase of per animal productivity through propagation of high genetic merit male germplasm (boar semen) through artificial insemination.
- (ii) Reduction of inbreeding
- (iii) Reduction of ingress of sexually transmitted diseases

## **2. Eligibility & Pre-Qualification Criteria**

- (i) The bidder may be an individual/firm/society/proprietor/supplier/contractor etc. of Indian citizen/having office within India.
- (ii) The bidder should have GST Registration, PAN Card, Voter's ID/ AADHAR Card. In case of company/firm a Registration certificate is required.
- (iii) The bidder having past experience of undertaking the similar works may be preferred.
- (iv) The applicant should not have incurred loss in any of the last three financial years
- (v) The bidder should not have been blacklisted by any Central / State Government PSU or any other Govt. bodies.

## **3. Tender Amount: Rs. 95.63 Lakh (Rupees Ninety Five Lakh Sixty Three Thousand) only**

## **4. Web-page of Tender : [www.ahvety.mizoram.gov.in](http://www.ahvety.mizoram.gov.in)**

## **5. Project Location : Hnahthial, Hnahthial District**

## **6. Publication of Tender : Through Information & Public Relation Department, Govt. of Mizoram, [www.ahvety.mizoram.gov.in](http://www.ahvety.mizoram.gov.in) and Notice Board of Directorate, AH&Vety.**

## **7. Scope of Works (Refer Annexure I & II):**

- (i) Design and construction of boar pen, biosecurity changing room cum bathroom, feed godown, semen collection room, laboratory, biosecurity fencing etc.
- (ii) Supply, installation and commissioning of laboratory, scientific machinery and equipments, consumable items etc.

## **8. Schedule for Completion of works:**

- (i) The Contractor will start the works within 15 Days from the date of signing an agreement, failing which the contract is liable to be cancelled by the Employer.
- (ii) The works should be completed in 6 Months from the date of signing the Agreement. In exceptional circumstances, the time period stated in this clause may be extended in written by mutual consent of both the Employer and the Contractor.
- (iii) If any damage shall happen to the work while in progress from any cause or if any defect shrinkage or other faults appear in the work within 3 months after completion, the contractor shall make the same good at his own expense or forfeit the Performance Security deposit of 5% deducted at the time of billing. The Performance Security deposited will be released after 90 days after payment of bill.
- (iv) No Subletting of work shall be permitted without prior information to the Authorities.

## **9. Final outputs required of the contractor:**

- (i) The project activities and the expenditure thereon will be at the responsibility of the contractor. The contractor will arrange and pay for machineries, equipment, manpower, slips, etc. and submit periodical reports on Plan of action to the Department.
- (ii) The contractor should enclose a certificate of group insurance scheme or equivalent to a minimum of ten (10) employees (labourers) within 15 days after issue of work orders without fail.



## **D.BID EVALUATION CRITERIA**

The Departmental Bid Evaluation Committee will open and evaluate the Technical bid and the Financial Bid at the place and time mentioned at important information sheet. During the Bid opening, the interested bidders (one representative) are allowed to participate.

### **1. Opening and Evaluation of Technical Bids**

The Bid Evaluation Committee would evaluate the technical bids. BIDDERS should be ready to reply to all the queries raised by the technical evaluation committee. The primary function of clarifications in the evaluation process is to clarify ambiguities and uncertainties arising out of the evaluation of the bid documents. To facilitate the Technical Bid evaluation, the technical criteria laid down along with the assigned weights have been presented in Table 1.

Bidders securing a minimum of 50% marks in the technical evaluation will only be considered for further financial bid evaluation. Bids which don't secure the minimum specified technical score will be considered technically non-responsive and hence debarred from being considered from financial evaluation. Scores of technically qualified Bidders shall be weighed on a scale of 80% and shall be carried forward for evaluation together with the scores of financial evaluation which shall be weighing 20%.

### **2. Opening and Evaluation of Financial Bids**

The Financial Bids of technically qualified bidders (i.e. above 50 marks) will be opened on the prescribed date in the presence of bidder representatives.

The financial scores will be calculated as

$$\mathbf{F_n = F_{min} / F_b * 100}$$

where,

F<sub>n</sub> = Normalized financial score of the bidder under consideration

F<sub>b</sub> = Evaluated cost for the bidder under consideration

F<sub>min</sub> = Minimum evaluated cost by any bidder

- The bid price should not be lower than 5% of the Departmental reserved price (Table 2).
- Any conditional bid would be rejected.
- **Errors & Rectification:** Arithmetical errors will be rectified on the following basis: “If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail”.
- If there is no price quoted for certain material or service, the bid shall be declared as disqualified.
- In the event that there are 2 or more bidders having the same value in the financial bid, the bidder securing the highest technical score will be adjudicated as the “Best responsive bid” for award of the contract.

### 3. Selection

Quality and Cost Based Selection (QCBS) will be used for final evaluation of the overall score as follows:-

$$B_n = 0.80 * T_n + 0.20 * F_n$$

where,

$B_n$  = Overall score of bidder under consideration

$T_n$  = Technical score for the bidder under consideration

$F_n$  = Normalized financial score of the bidder under consideration

AHVD reserves the right to negotiate with the Bidder whose proposal has been ranked first on the basis of best value.

#### **4. Bid Currency**

Prices for services offered shall be quoted in Indian National Rupees (INR) only.

#### **5. Bid Security**

1. All BIDDER's shall deposit, as part of its Bid, an Earnest Money amounting as mentioned earlier (refer to page 5).
2. The Bid Security shall be in Indian Rupees and shall be in the form of Demand Draft/Bankers Cheque in favour of Director, Animal Husbandry & Veterinary Department, Govt. of Mizoram, payable at Aizawl, and shall be valid for at least 180 days.
3. Unsuccessful bidder's Bid security will be discharged or returned within sixty (60) days after the expiration of the period of Bid validity prescribed.

#### **6. Forfeiture of BID Security**

The Bid security may be forfeited either in full or in part, at the discretion of AHVD, on account of one or more of the following reasons:

1. If the bidder withdraws his Bid during the period of Bid validity specified by him on the Bid Letter Form;
2. If the bidder fails to co-operate in the Bid evaluation process
3. If the bid or its submission is not in conformity with the instruction mentioned herein
4. If the bidder violates any of the provisions of the terms and conditions of the tender
5. In case, a successful bidder fails to (a) accept award of work, (b) sign the Contract Agreement with AHVD, within the stipulated time after acceptance of communication on placement of award, (c) furnish performance security, (d) fails to sign the Contract Agreement in time, (e) or the bidder violates any of such important conditions of this tender document or indulges in any such

activities as would jeopardize the interest of AHVD in timely finalization of this tender. The decision of AHVD regarding forfeiture of bid security shall be final and shall not be called upon question under any circumstances. A default of such type or nature may involve black-listing of the bidder by AHVD/Govt. of Mizoram.

#### **7. Award of Contract:**

Based on the Evaluation, The Departmental Purchase Advisory Board will select the successful bidder. Then, the AHVD will award the contract to successful BIDDER whose bid has been determined to be responsive and has been determined to be most competitive and thus selected.

#### **8. Termination of Contract:**

Upon finding the performance of the contractor unsatisfactory, the AHVD shall have the right to terminate the work order and the contract agreement at any point of time.

#### **9. Force Majeure**

Any circumstances beyond the control of the selected firms/ agency/ partner or Government Department as the case may be which cannot be foreseen and which substantially affect the performance shall be dealt with conducive atmosphere.

Any legal dispute litigation arising out of the terms, the Court of Law at Aizawl shall have the Jurisdiction to adjudicate the same.

**Table 1. Technical Evaluation Criteria**

<b>SI No</b>	<b>Criteria</b>	<b>Requirements</b>	<b>Max Mark</b>
<b>COMPANY PROFILE and EXPERIENCE</b>			
1	Year of Experience should not be less than 5 years	≥ 5 years = 5 marks <5 years = 0 mark	5
2	Number of experience in works of similar nature of work performed as prime contractor. Work performed in the past as a nominated sub-contractor will also be considered provided the Sub-Contract involved execution of all main items described in the Bid Document.	≥ 4 works done = 40 3 works done = 30 2 works done = 20 1 work done = 10	40
3	Design, drawing and estimate of a the civil works	Excellent = 25 Very good = 20 Good = 10 Fair = 5	25
4	Schedule of work plan	Yes = 10 No = 0	10
5	The Bidder should have average annual turnover of not less than INR 50 Lakhs during three financial years (F.Y. 2019-20, 2020-21 and 2021-2022) respectively.	Yes = 10 No = 0	10
6	Avg. Net Profit figure for last three years	50 lakh and above = 10 marks ≥35 lakh and <50 lakh = 8 marks ≥20 lakh and <35 lakh= 5 marks.	10
<b>TOTAL MARKS =</b>			<b>100</b>

## Form-A QUALIFICATION INFORMATION

(See Rule 37(1)(c))

This Section contains all the criteria that the Employer shall use to evaluate Bids and qualify Bidders.

The information to be filled in by the Bidder in the following pages will be used for purposes of Qualification. This information will not be incorporated in the contract.

### 1. Qualification Information of the Bidder:

- d) Constitution or Legal status of Bidder : [Attach copy]
- e) Place of Registration :
- f) Principal place of business :

1.2 Total value of Works performed in the last five year (immediately preceding the financial year in which bids are received):

Year	Description of work	Nodal Officer	Value (Rs. in lakh)
20__ to 20__			
20__ to 20__			
20__ to 20__			
20__ to 20__			
20__ to 20__			

1.3 Experience in works of similar nature of Work performed as prime contractor:, work performed in the past as a nominated sub-contractor will also be considered provided the Sub-Contract involved execution of all main items of work described in the Bid Document, provided further that all other qualification criteria are satisfied (in the same name) on works of similar nature over the last five years (immediately preceding the financial year in which Bids are received).

Project name	Name of Employer*	Description of work	Contract No	Value of Contract (Rs in Lakh)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remarks explaining reasons for delay & work completed

\* Attach certificates from the Engineer-in-Charge

1.4. **Financial reports for the last five years:** balance sheets, profit and loss statements, auditors Reports, etc. List them below and attach copies

Financial Information	Historical information for the last 5 years from to						
	Yr1	Yr2	Yr3	Yr4	Yr5	Avg	Avg.ratio
<b>Information from Balance sheet</b>							
<b>Total assets</b>							
<b>Total liabilities</b>							
<b>Net worth</b>							
<b>Current asset</b>							
<b>Current liabilities</b>							
<b>Information from income statement</b>							
<b>Total revenue</b>							
<b>Profit before taxes</b>							

1.5 Name, address and telephone, telex and fax numbers of the Bidders' bankers who may references if contacted by the Employer.

Sl. No	Name of Bank	Address	Contact Phones/ Telex/fax	Remarks

1.6 Information on litigation history in which the Bidder is involved

Other Parties	Employer	Cause of dispute	Amount involved	Remarks (present status)

1.7 Statement of compliance to be undertaken.

(Name of Consultant engaged for Project preparation is\_\_\_\_\_)

I, the undersigned, do hereby certify and declare that our Firm,\_\_\_\_\_ or any of our employees is neither associated, nor has been associated, directly or indirectly, with the Consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract.

(Signature of authorised Signatory of the Firm)\_\_\_\_\_ Name of the signatory \_

\_\_\_\_\_  
Title of the signatory \_\_\_\_\_

Date\_\_\_\_

1.8 Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of Bidding Documents.

- i. Site Organisation
- ii. Method Statement
- iii. Mobilisation Schedule
- iv. Construction Schedule
- v. Contractor's Equipment
- vi. Personnel
- vii. Others



**Form-B**

**FORM OF TECHNICAL BID**

Name of Work: \_\_\_\_\_

Bid No: \_\_\_\_\_

To

\_\_\_\_\_ [Employer]  
\_\_\_\_\_ [ Address ]

We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Document, including Addenda.
2. We offer to execute the Works described above and remedy any defects therein in conformity with the Conditions of Contract including Special Conditions, Specifications, Drawings, Bill of Quantities.
3. We undertake, if our Bid is accepted, to commence the work as stipulated in this Contract, and to complete the whole work comprised in the Contract within the time stated in the Contract Document.
4. We agree to abide by this Bid for the period of\_\_ days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
5. We undertake that unless and until a formal Agreement is prepared and executed, this Bid, together with your written notification of Letter of Acceptance shall constitute a binding contract between us.
6. We understand that you are not bound to accept the lowest or any tender you may receive.
7. I/We do hereby submit our Technical Bid, complete with all the required information as stipulated in your Bidding Documents.

Signature of authorized signatory.....

Name..... .

Title .....

Date .....

**Form-C**

**FORM OF FINANCIAL BID**

Name of Work: \_\_\_\_\_

Bid No: \_\_\_\_\_

To

\_\_\_\_\_ [Employer]

\_\_\_\_\_ [Address]

Sir,

We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Document including Addenda.
2. We offer to execute the Works described above and remedy any defects therein in conformity with the Conditions of Contract including Additional Conditions and Special Conditions, Specifications, Drawings, Bill of Quantities accompanying this Bid for a sum of Rs. \_\_\_\_ (Rupees \_\_\_\_\_) only.
3. We undertake to abide by the Final Sum coming out of the correction of arithmetical errors as indicated in the General Conditions of Contract.
4. We also undertake, if our Bid is accepted, to commence the work within the period as indicated in the Contract Document and to complete the whole work comprised in the Contract within the time stated in the Contract Document.
5. We agree to abide by this Bid for the period of \_\_\_\_\_ days from the date fixed for receiving the same, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
6. We undertake that unless and until a formal Agreement is prepared and executed, this Bid, together with your written notification of Letter of Acceptance shall constitute a binding contract between us.
7. We understand that you are not bound to accept the lowest or any tender you may receive.
8. I/We do hereby submit our Financial Bid, complete with all the required information as stipulated in your Bidding Documents.

Signature of authorized signatory.....

Name.....

Title.....

Date.....

## **Form – E**

### **AFFIDAVIT**

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certify that neither our firm M/S \_\_\_\_\_ has abandoned any works in India nor any contract awarded to us have been rescinded during the last five years prior to the date of this Bid.
3. The undersigned hereby authorize and request any Bank, person, firm or corporation to furnish pertinent information deemed necessary and required by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agree that further information may be requested and agrees to furnish any such information at the request of the Department

(Signature of Authorised Signatory of the Firm)\_\_\_\_\_

Name of the signatory\_\_\_\_\_.

Title of the signatory\_\_\_\_\_.

Date \_\_\_\_\_.

## Design & Build of Civil Construction, Furnitures & Fixtures

Sl. No.	Particulars	Total Unit
1	Construction of boar pen @80 sqft/boar	4
2	Construction of Laboratory	
	<i>a) Semen collection room @100sqft area</i>	1
	<i>b) Construction of semen processing laboratory @225 sqft area (15'x15')</i>	1
	<i>c) Furnitures and Shelves</i>	1
3	Construction of Biosecurity changing room cum Bathroom @80 sqft (10'x8')	1
4	Construction of Feed godown @144 sqft (12'x12')	1
5	<i>Biosecurity fencing</i>	1

Supply, installation and commissioning of laboratory, scientific machinery and equipments, consumable items etc.

Sl. No.	Particulars	Total Unit
1	<b><u>Semen Collection</u></b> (Semen Collection dummy boars) : 11” Height adjustable dummy with gas pressure spring for easy adjustment of height. Heavy steel body coated with robust and removable PUR plastic cover to provide hygienic surface.	1 pc each
2	Anti Skid Rubber Mat for dummy boars	1 pcs each
3	Thermos Flask for Boar Semen Collection White / Semen collection cup, insulated. volume: 1 litre Wide opening, for manual semen collection.	5 pcs each
4	Semen collection glove, size L, non-spermicidal, latex, powder free. (1 x50)	10 pkt each
5	Hygienic pre-collection glove.(1 x 100 )	10 pkt each
6	<b>Phase contrast microscope MBL/ VISION 2000-</b> microscope for semen analysis with objectives 10x, 40x, 100x,heating system with temperature control unit HT 50 with digital temperature display for individual temperature adjustment	1 set
7	Microscope slide, 76 X 26 mm ( 1 x 50 )	10 pkt each
8	Cover glass, 18 X 18 mm (1 x 100)	10 pc each
9	<b>ACUACELL / ACCUREAD PORCINE PHOTOMETER (SDM 1)</b> Calibrated for Porcine and for measuring sperm concentration. Adapter and batteries between 100 – 240 V.	1 pc each
10	Micro cuvette for Photometer SDM 1	500 pc each
11	Tube magazine: stainless steel for 6 boar semen tubes, 95ml	1 pc each
12	Mixing and dispensing bath for boar semen 3.5litre	5 pc each
13	3-Tube manual sealer	1 pc each
14	BTS QSF (100ml for 1 LITER )1 liter with Gentamicin (100ml for 1 Liter)	50 pc each
15	EU Cocktail QSF for Swine Media ( 1 liter) Medium and standard term extenders: M III with antioxidant and antibiotic	50 pc each
16	Quick Tip Flexi tube or equivalent for Boar semen, transparent, 95 ml	2000 pc each
17	Cool and Warm box for boar semen, 30 L, 12 V,portable, temperature: +17 C Capacity : 85 tubes or bottles	2 pc each
18	Converter 12 V/AC 100-240 V, For thaw units, portable incubators, portable semen storage units and warming plates	2 pc each
19	Boar Scent: Pheromone Spray for Sows, 35 ml approx	10 pc each
20	Heating cabinet, ( Incubator) +37°C. 230 V: Heating cabinet with preset temperature 37°C,	1 Unit each
21	Double Distilling Apparatus	1 Unit each
22	Hot Water Bath	2 Unit each
23	Portable Ultrasound scanner for veterinary pregnancy diagnosis with 2 nos of probe for small and large Animal	1 Unit each
24	Ice Lined Refrigerator (ILR) with specialized Thermo regulator 275ltr capacity	1 Unit each
25	IMV make Cochette or equivalent	3000 pc each
26	IMV Semen Filter 230 mm: For Cochette or equivalent(1x200 pcs)	10 pkt each
27	IMV Golden Gilt Catheter: IMV make or equivalent	1000 pc each
28	IMV Golden PIG Catheter: IMV make or equivalent	1000 pc each