

DIRECTORATE VETERINARY SERVICES
OPPOSITE GURU TEG BAHADUR UDHYAN,G.E. ROAD, RAJATALAB, RAIPUR (C.G.)

TENDER DOCUMENT
**FOR SUPPLY OF INSTRUMENTS/EQUIPMENTS FOR DAIRY LABORATORY,
DISEASE INVESTIGATION LABORATORY, COLD CABINET, BREEDING,
ARTIFICIAL INSEMINATION & LIQUID NITROGEN CONTAINERS**

- Issued to M/s
 - Price of tender document Rupees (3000/- Three thousand
only)
 - Price received :.....
 - Receipt No. /Date
-

Signature and designation of issuing officer

.....

**Directorate Veterinary Services
Raipur-490001 (Chhattisgarh)**

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CHECK LIST

Sr. No.	Name of Documents	Page No.	Yes	No
1	2	3	4	5
A	Technical proposal (Envelop)			
1	Specimen 1 to 9 (documents as per format)			
2	Security Money Deposit in the form of BD of any scheduled Bank			
3	Duly attested photocopy of manufacturing License			
4	Annual turnover of Statement for 3 Year by Sales Tax authorities/ Chartered Accountant			
5	Valid Import license/Import Export code no. issued by competent authority			
6	Valid sales Tax Certificates			
7	SSI/Govt undertaking unit registration (If required)			
8	Incorporation certificate (If required)			
9	Authority letter issued to Agents through which manufacturers wish to supply the items.			
10	Authorization certificate issued by manufacturer of the item, if Authorized dealer is quoting..			
11	Tender Form duly signed by authorized person			
B	Financial Proposal (Envelop)			
1	Annexure 1			
2	Annexure 2			
3	Annexure 3			

Section A: Tender Supply Letter

**Directorate Veterinary Services
Chhattisgarh Raipur**

No.....2008-09/Tender/Raipur

Date.....

To,

M/s.....
.....
.....
.....

Subject: - Tender for supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers.

Ref : - Your Letter No Date.....

Please find herewith-enclosed tender form along with agreement bond, terms and condition of contract, list of products.

Last date of Submission of tender is **07.11.08 (3.00 pm)** and will be opened on the **07.11.08 (4.00 pm)** in the office of undersigned.

The tender will be received at Office of the **under signed**.

Encl: - ____ Pages only.

**Director
Veterinary Services
Chhattisgarh Raipur**

Section B: Tender Notice

Directorate, Veterinary Services, Chhattisgarh, Raipur, (herein after referred to as Purchaser) invites Sealed tender for the supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers from Manufacturer/ Authorized dealer.

The Tender form can be obtained from the Purchaser on producing application & payment of Rs. 3000/- (Three thousand) cash or by Bank draft (non refundable) of any sceduled bank in favour of Director, Veterinary Services, Chhattisgarh, Raipur or it can be downloaded from website <http://agridept.cg.gov.in/> and submitted along with the required bank draft of Rs. 3000/- mentioning as above with technical proposals (Technical bid envelop).

All interested manufacturers/ authorized dealer are required to submit their technical proposal and financial proposals in two separate envelopes. The technical proposals will be accompanied with Security Deposit (SD) amount as specified in this tender document elsewhere. The SD should be included in the same envelope containing the Technical Proposal. The technical and financial proposals along with SD must be delivered to the Directorate, Veterinary Services, Chhattisgarh, Raipur, on or before the due date for submission of proposals mentioned elsewhere in the Tender document.

The envelope containing Technical proposal along with the SD will be opened on the specified date and time in presence the Purchase committee and in presence of bidders or their authorized representatives who choose to attend.

The summary of various activities with regard to this Invitation of bids are as given below

1	Date of commencement of Sale of tender Document	06.10.08 (during office hours)
2	Last Date of Sale of Tender Document	06.11.08 (during office hours)
3	Last Date and Time for Submission of Proposals	07.11.08 (3.00 pm)
4	Date and Time of Opening of Technical Proposals	07.11.08 (4.00 pm)
5	Security Deposit	3% of Budgetary Estimate of each quoted items as given in Annexure 1 of this tender document, in the form of Bank Draft from scheduled bank and as per terms mentioned elsewhere in the document. The Purchaser will not be liable to pay any interest on such SD amount. Cash or Cheques or any other mode will not be accepted.

Section C: Information and Instructions for Bidders

Submission of Proposal

The eligible manufacturers/ authorized dealers also referred to as “bidders” should submit their proposals in the format and content provided in Section E: Technical Proposal and Content and Section F: Financial Proposal and Content.

Technical proposal shall be placed in separate envelop clearly marked as “Technical Proposal” - For Supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers along with SD. The Tender Form Fee for those applicants who have downloaded the form online need to be submitted in form of Bank draft favoring Director of Veterinary Services, Chhattisgarh, Raipur, which should be kept inside of Technical bid envelop.

Financial Proposal shall be placed in separate envelopes clearly marked “Financial Proposal – For Supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers. Both Technical and Financial Proposal shall be kept in an outer envelope clearly marked “tender for the supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers” . The outer envelope should also bear the submission address, name of the bidder and contact details.

The tenderer should apply in the enclosed format only. The same on acceptance will constitute the contract in terms specified there in. All/Any conditional tenders are liable to be rejected.

The filled Tender or Proposal should reach Directorate, Veterinary services, Chhattisgarh, Raipur according to the last date and time for submission given in Section B: “Tender notice” however, purchaser may at its discretion extend the said deadline for submission of the proposal by amending the tender notice. Any proposal received late i.e. after the stipulated date and time will be rejected.

Validity of Proposal

The tender terms and conditions including financial rate contracts agreed upon with the successful bidder shall be valid up to 31st March 2009. The rate contract period may, however, be extended for a further period on mutually agreed terms on the discretion of the Purchaser for a maximum period of three months. Any contract mentioning otherwise validity period will not be considered.

Language and Currency of Proposal

All the enclosed documents shall be in English or Hindi, if any document is produced in any language other than English or Hindi, true translation copies of such documents in

English shall be enclosed duly attested by a Gazetted officer. Failure to submit English translation of such documents shall make tender invalid.

Further the price quoted in the Proposals shall only be in Indian Rupees.

Tendering Cost

The prospective manufacturers/ authorized dealer shall bear all costs associated with tendering process with respect to preparation and submission of proposals. The Purchaser shall not be responsible or liable for any of these costs regardless of conduct or outcome of this tender process. It may be noted that none of the tender related costs related to preparation and submission and other incidentals costs if any are reimbursable

Risk of Proposal Rejection

Any proposal application which is incomplete from any respect i.e. not fulfilling any of the requirements of Section E: Technical Proposal or Section F: Financial Proposal or any other clause, conditions in the tender document shall be liable for rejection. Further any Illegible and over writing, cutting etc. in the rates filled in financial bid will make the proposal also liable for rejection.

Changes in Tender Document

Purchaser may at any time prior to the deadline for submission of bids, for any reasons, whether on its own initiative or in response to the clarification sought by any prospective bidder, modify, change incorporate or delete any part of the tender document. In order to allow sufficient time for preparation against such changes, Purchaser may at its discretion extend the deadline for the submission of bids.

Tender Evaluation

Thereafter, financial bids will be opened by the purchase committee to provisionally assign the vendor selection for each item in the order of preference as under –

First Preference – Lowest Bidder (L-1)

Second Preference – L-II

Third Preference – L-III

Thereafter the purchaser shall invite the L-1 bidder for negotiations and if the purchaser feels that negotiation process is not producing any results and the overall contract value gap between L-I, L-II or L-III is not more than 10% (or any other % as may deem fit to the Purchaser), they shall invite L-II and/or L-III bidder accordingly for final negotiation.

The selected bidder(s) (also referred as Contractors in the document) will be communicated in writing about the results. The SD shall be returned to all unsuccessful bidders or disqualified bidders **only via registered post at the address** of communication mentioned in the application.

Right to Reject/Accept any of all Bids

- The Purchaser reserves the right of the accepting the tender in whole lot or distinct part of it or the supply can be distributed between more than one tenderer.
- The undersigned may reject all or any of the tenders without assigning any reasons there of or annul the tender process without thereby incurring any liability to the prospective bidders.
- No tender shall be taken into consideration unless it satisfies all the requirements prescribed above and is presented within prescribed time limit. Purchaser, however reserves the right to give any relaxation in this connection.

Penalty Clause

The terms and conditions mentioned in the tender document contains the penalty clause as per the store purchase rules of CG that will get attracted in case of default from successful bidder.

Mode of Submission of Proposals

Proposal shall be accepted by registered post or speed post or by courier approved by P&T dept. or by depositing the tender form in the drop box at the address specified in **Section B: Tender Notice section of the document**. Proposals received in any other mode shall not be acceptable.

Right to Black List Defaulting Contractors

The purchaser reserves the right to Black List any contractor either in whole or in part limiting to certain products and for certain period for any breach of any of the terms and conditions of the tender. Such Black Listed Contractor or his establishment will not be eligible to participate in any of the departmental tenders accordingly.

Authorized Signature

If tender being submitted by a partnership firm or a company it must be signed separately by each partner/director and in the event of absence of any partner/director it must be signed on his behalf by a person holding power of attorney which should be issued by the person absent, authorizing him to do so which should be produced with the tender and it must be disclose that the firm is registered under Indian Partnership Act/Companies' Act along with specification of No. of Partners/Directors who constitute the firm/Company with their names & address.

Each page of the proposal and its enclosures should be signed at the bottom by the tenderer / Authorized Person.

Director
Veterinary Services
Chhattisgarh Raipur

Section D: Tender Terms and Conditions

1. SECURITY DEPOSIT

- a. The Security Deposit (SD) should be equal to 3% of the value of budgetary estimate for each item as given in the Annexure 1 forming part of Financial Bid in Section E of the document. SD should only be in the form of Bank Draft from any scheduled bank favouring “Director of Veterinary Services, Chhattisgarh, Raipur”. SD in the form of CHEQUE/CASH/ POSTAL / BANK Guarantee will not be accepted. For Public Sector Under takings Bank Guarantee shall also be accepted for the validity period of the proposal.
 - b. If the contractor is bidding for multiple items, a single Bank Draft for the entire SD amount can be submitted.
 - c. In cases where the Successful bidder has won only a partial contract or in cases where he has won the supply contract for lesser number of items he had bid for, he can submit a Bank Draft with revised amount of Security deposit corresponding to such change. The basis of SD amount shall remain to be the 3% of the value of budgetary estimate for each item as given in Annexure 1.
 - d. Security Deposit in any other form, which may have been made earlier or any payment pending with the purchaser will not be adjusted towards the requirement of Security Deposit in this tender
 - e. The SD shall be returned to all unsuccessful bidders or disqualified bidders only via registered post at the address of communication mentioned in the application.
2. The price quoted by the tenderers shall not in any case, exceed the controlled price, if any, fixed by the Central/State Government and the Maximum Retail Price (MRP). The Director Veterinary Services, Chhattisgarh, Raipur, at his discretion, will exercise the right to revise the price at any stage so as to conform to the controlled price or MRP as the case may be. This discretion will be exercised without prejudice to any other action that may be taken against the tenderer.
 3. For any changes to the rates quoted by the firm in tender documents i.e. proposed rates & M. R. P. rates, at the time of supply then such changes must be informed to undersigned well in time (before supply) and following conditions shall apply with respect to any changes in rates during the period of supply or any extension thereof -
 - (a) After approval of Tender rate, if M. R. P. increases, there will be no change in approved rates and tenderer will have to supply the order on approved tender rates only.
 - (b) If M. R. P. decreases during the contract period then the quoted rates will also be decreased in the same proportion and the decreased rate will be treated as

approved rate, Contractor will have to supply the items at the reduced rate. It will be mandatory for the contractor to pre-intimate the purchaser about the reduction in rate due to change in MRP otherwise purchaser has the right to forfeit SD amount and/or blacklist the contractor and/or cancel his supply orders and/or recover the loss incurred to the Purchaser on account of such rate difference from the security deposit or from any amount due to the contractor. The contractor will have to produce a certificate regarding change in MRP/no change in MRP with every invoice produced to purchaser. To produce such certificate will be sole responsibility of contractor.

- (c) M. R. P. should also be mentioned along with the quoted price, without which the tender will not be considered. Please refer the format in Annexure 1
- (d) On any circumstances the rates tendered shall not be allowed to be revised upward by the Contractor during the terms of the contract.
4. Purchase preference will be given to SSI Unit/Govt undertaking units as per Store Purchase rules of the Government of Chhattisgarh, provided those units have full fill all the other terms and conditions of the tender.
 5. The approved/quoted prices will hold good till the end of 31 March 2009 and may be further extended up to three months with the prior approval of Director, Veterinary Services, Chhattisgarh, Raipur. The delivery of goods by the contractor should be at Directorate Veterinary Services, Chhattisgarh, Raipur or the place mentioned in purchase order. The cost of packing, forwarding, freight and other charges for effecting delivery at the destinations shall be borne by the Contractor (also referred to as Successful Bidder).
 6. All dues regarding taxes and duties including sales tax commercial tax excise duty, octroi duties levied on the supply shall be payable by the contractor himself. The Purchaser on written request shall only grant a certificate of total quantity of supply made.
 7. All losses during transit including the losses due to breakage and shortage, spoilage etc. will have to be borne by the contractor at his own cost.
 8. In the event of the supply being not accepted at the destination due to any reason, it shall be responsibility of the contractor to remove the same forthwith at his own charges and cost.
 9. Any amount due to the Government of Chhattisgarh from the contractor on any account in respect of this tender may be recovered from him as arrears of land revenue.
 10. In case if contractor is manufacturer & manufacturers wish to supply the items through their distributors or Agent, Prior intimation about such distributor or Agent through which the item will be supplied shall be provided with authorization certificate to the Director, Veterinary Services, Chhattisgarh, Raipur in writing, However the purchase orders shall be made in the name of Manufacturer only.

Manufacturer will raise Invoice in the name of purchaser and the respective payments shall be made in the name of manufacturer only. In case if contractor is authorized dealer then he has to produce authorization letter certificate issued by manufacturer referring this tender notice to quote the rates of the item/s. These documents are to be submitted with technical bid envelop.

11. In the event of any dispute or differences arises between the parties of this contract on any of the provisions herein or anything arising here out of this tender document, the same shall be referred to the Secretary (Agriculture), Government of Chhattisgarh, Raipur. for arbitration and his decision thereon shall be final and binding to all concerned.
12. Director Veterinary Services, Chhattisgarh, Raipur reserves the right to increase or decrease the size of the order during the contract. The contractor will be bound to comply without any claim for the compensation.
13. The contractor shall be held responsible for the supply of any spurious or contaminated item and the cost involved in testing and other legal proceeding and the cost of replacement will be borne by him.
14. Supply being made should be strictly of the same description as prescribed in the purchase order and in the same quantity as per purchase order issued. Any deviation without prior approval from Director Veterinary Services, Chhattisgarh, Raipur in writing from Purchase Order in terms of Item description, its unit of measure or quantity will not be acceptable and such supply will not be liable for payment.

15. ORDERS AND DELIVERY SCHEDULES

- a. The purchaser does not guarantee the quantity, which will be ordered. The quantity mentioned in Financial Proposal Annexure 1 against the items is tentative and no claim for release of order for that many quantities will be entertained.
- b. The purchaser reserves the right to order for only such quantity as may be necessary and the Contractor is bound to supply the ordered quantity only, Purchaser may issue subsequent orders as and when required. Quantities supplied in excess will not be paid for.
- c. The entire supply shall need to be completed with in the period mentioned in the Purchase Order or for the period extended by the Director Veterinary Services, Chhattisgarh, Raipur.
- d. If the contractor fails to execute the supply within the stipulated time, the purchaser is empowered to make emergency purchases at the risk & cost of the contractor and claim the difference in total cost from the tenderer in addition to other penal clauses.
- e. Purchaser reserves the right to designate his powers of purchaser to departmental district authority or other agency for issuing purchase orders of the items approved & make payments thereof. In such case contractor has to make supply at destination desired by authority concern & accordingly bills will be raised to authority concern.

16. PENALTY CLAUSE:

- a. In case commodities indented are not supplied within the time limit or loss is not made good according to the terms & conditions of this contract, the tenderer shall be liable to pay liquidated damages and by the way of penalty the sum of 2% of the cost of order placed, shall be deducted from the bill for every month of delay (Month will be considered of 30 days and part month will be considered as Full month for the calculation of penalty)
 - b. Further it shall be lawful for the Director Veterinary Services, Chhattisgarh, Raipur to purchase the articles indented from open market at the risk and cost of the contractor who in addition to the liquidated damages, aforesaid shall also be liable for any losses or damages caused by the said purchases to the Government
 - c. REMEDIAL CLAUSE: However, if the purchaser is satisfied that the delay in supply was caused by the circumstances beyond the control of contractor, he may grant him in writing, extension of time which will not exceed 90 days and shall not be extended again. In such case the purchaser may forgo the whole or part of the liquidated damages as the purchaser may deem proper except the actual extra cost incurred in making purchases from open market.
17. The Invoice/Billing shall be done in the name of "Director, Veterinary services, Chhattisgarh, Raipur" . In case purchase order is placed by other authority, billing shall be done in the name of such concerned authority.
18. The Information with respect to Purchase Order No issued by the Purchaser, VAT/Sales Tax Registration No, MRP MUST be mentioned in the Invoice with other details. Invoices not complying with these conditions and/or not supported by proof of delivery shall not be liable for payment.
19. The tenderer shall deposit one selectable/ marketable sample for those items asked for sample submission indicating by "S" in financial proposal (Anexure 1) with the Directorate, Veterinary Services, Chhattisgarh, Raipur. The list of items deposited along with certification from concerned Departmental officers, should be enclosed with Technical bid of the tender form itself by the tenderer. If any tenderer has not deposited samples as specified and not furnished certification, his tender is liable for rejection.
20. The non approved samples will be returned to the respective firms by Directorate. The firm will take back the non approved samples at their expenses within 30 days on intimation from Directorate. The authorized person on behalf of the tenderer will obtain the acknowledgement from Directorate for the deposits & receipt of samples.
21. All works under or in course of execution or executed in pursuance of the contract shall at all times be open for the inspection and supervision of this office including their authorized subordinates.
22. The contractor shall execute the whole and every part of the work in the most substantial and workman like manner and both as regards materials and every other

- respect in strict accordance with specification. The contractor shall also confirm exactly, fully and faithfully to the designs, specifications and instructions in writing relating to the work.
23. Full details of after sale service offered during the post guarantee period should be furnished along with tender.
 24. Information's of actual users of the equipment in India supported with evidences and performances and sufficient sample for each item should be furnished along with tender.
 25. Required Items are to be supplied at the address of consignee mentioned in work order. After receiving the goods by quality and quantity will be verified by the committee. The specification of Items should strictly tally with specifications of samples submitted by the tenderer along with tender.
 26. Trouble free performance of the Liquid nitrogen containers for a period of one year from date of commissioning should be guaranteed. Any defect intimated should be attended to and rectified within 15 days of receipt of such communication within guarantee period. The guarantee shall include cost of spares and labor.
 27. The contractor should give an undertaking that they will be responsible to carry out the preventive maintenance and to repair the liquid nitrogen containers during guarantee and post guarantee period.
 28. Liquid nitrogen tankers will be provided with sufficient length inlet & outlet hose pipes. The working of the tankers must be demonstrated in any place to be specified by the contractor.
 29. The rates quoted for the Liquid nitrogen containers should include the cost of liquid nitrogen required for testing of the Containers.. Installation charges must include in the cost of Container. If LN₂ for testing is provided by agency than while making payments for LN₂ Containers the purshaser will deduct the cost of LN₂ used for testing at the rate Rs. 25.00/liter.
 30. Performance Bank Guarantee
Performance bank guarantee amounting Rs. 10% must be submitted by contractor for following equipments-
 - a) Multipurpose Gerber Centrifuge Machine
 - b) Automatic Milk Analyzer with Therma printer
 - c) Bulk Milk Cooler
 - d) Milk Dump Tank
 - e) Over head milk tank for pouch packing machine
 - f) Milk pasteuriser
 - g) Double headed milk pouch packing machine
 - h) Elisa Reader

The guarantee will cover the equipments supplied under this contract against defective materials & workmanship for the period of 12 months from the date of commissioning of the equipment. If any part of the equipment is made in to use earlier for some reason the guarantee period will commence from the date of such use.

31. The installation , commissioning & trial run will be at the cost & responsibility of contractor for the equipments which require so. The Contractor shall train to the satisfaction of the purchaser one or two Technicians at site of supply for operating, servicing and undertaking minor repairs without extra cost.
32. For the item Castrator for Bovine & Ovine, no. of units of sample will be 10 for each. To ensure conformity with desired specification purchaser can/will send them for field trial &/or laboratory testing & if found satisfactory then only the financial proposal will be considered.
33. The contractor will have to give demonstration &/or presentation of the items, if desired by purchase committee at the site asked for with out any cost.

Section E: Technical Proposal and Content

In order for the Purchaser to evaluate the technical proposals fairly and completely, all prospective bidders must follow the sequence and format laid out below for submission of their technical proposal. To be considered the bidders must provide a complete response to the technical proposals along with supporting and must submit following minimum requirements in the sequence mentioned below –

1. Covering Letter (**Specimen 1**)
2. General Information about Bidders (**Specimen 2**)
3. Agreement Bond in a Rs 100/- notarized judicial stamp paper (**Specimen 3**)
4. Security Deposit in the manner provided elsewhere in the document
5. Duly attested photocopy of **Manufacturing License** for the products duly approved by the Licensing authority must be enclosed for each and every product quoted in the tender. The license must have been duly renewed up to date & valid for complete Rate Contract period & supplies being made against it. The copy should be legible, items should be clearly marked and should be clearly readable. The attestation should be made by a public notary/Gazetted Officer. Manufacturing license is to be produced by manufacturer if manufacturer is submitting the tender or by the authorized dealer for the manufacturer whose item is quoted.
6. Duly attested photocopy of valid import license issued by Licensing Authority/ Importer Exporter Code no., if it is an imported item.
7. Manufacturer/ authorized dealer should have minimum average annual turnover of Rs. Five crores during the last three financial years. The Certificate of annual turnover should be issued by CA and should be supported by Audit Report and Audited Financial statements for last three years i.e. 2005-06, 2006-07 and 2007-08. In case Audit of 2007-08 is pending, provisional financial statements with turnover certificate from the Chartered Accountant must be submitted.
8. Valid sales Tax registration certificates issued by concerned Authorities.
9. Performance Statement in an affidavit executed before Executive Magistrate/Public Notary (**Specimen 4**)
10. Acceptance of Terms and Conditions mentioned in the Tender Document (**Specimen 5**)
11. Details of personnel working with the manufacturer/authorized dealer and have relatives as gazetted officer in veterinary department (**Specimen 6**)
12. If the organization is registered under SSI/State Gov Undertaking Unit, Enclose copy of registration
13. Incorporation Certificate of the Organization (In case of Non Proprietary firm)
14. Details of the Manufacturer & authorized dealer.(**Specimen 7**).
15. Authorization Certificate in case Manufacturers wish to supply the items through their distributors or Agents
16. Authorization certificate issued by manufacturer of item, if authorized dealer is submitting tender.
17. Name, Model, Make of the items quoted. (**Specimen 8**)
18. List of samples submitted (mentioning Name, make/model , Specification & no. of units) (**Specimen 9**)

Note -The above documents should be arranged in serially as given in above manner with paging.

Section F: Financial Proposal and Content

Separate Financial Proposal should be placed in envelope clearly marked “Financial Proposal – For Supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers Financial Proposal be submitted with the covering page as below –

To,

The Director Veterinary services
Government of CG
Raipur, Chhattisgarh

Subject: Financial Proposal for Supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers to the Directorate, Veterinary services, Chhattisgarh, Raipur.

Dear Sir,

I/We _____ (name of the Organization) are pleased to submit our financial proposal for the supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers in accordance with our technical proposal and as per request in Annexure 1 , 2 & 3 of the tender form dated _____

Our Attached financial Proposal is for the total sum of Rs given as below –

SNo	Name of items	Amount in Figures (Rs) (total for all items) (inclusive of all taxes, freight and Insurance)	Amount in Words (total for all items) (inclusive of all taxes, freight and Insurance)
1	Items as per format and list attached in Annexure 1,3 to the Tender Document		

We understand that our financial proposal is unconditional and any conditions mentioned shall make our tender liable for rejection. Our financial proposal shall be valid till 31st March 2009 or till the end of supply as per terms and conditions of supply period laid elsewhere in the tender document.

We acknowledge that with reduction in MRP of items being supplied in this tender there would be a proportionate decrease in our quoted price. We take full responsibility to intimate the Purchaser with such change in advance to supply.

Thanking You,
Yours truly,

Name and Signature of Authorized Signatory

(Note: Proprietor/Partner of Firm/Director of Company will sign the letter

Annexure 1: Format for Financial Bid and List of Items

(In Rs.)

Filled by purchase						Filled by contractor	
S.No.	Name of item	Sample desired for item indicates as "S"	Approx. requirement (Unit)	Approx. Value	SD Amount	Model/ Make	Total price inclusive of all taxes, charges (Figures in numeric & words)
1	2	4	5	6	7	8	9
1	Butter Trier	-	10	500	15		
2	Cheese Trier	-	10	500	15.00		
3	Muffle Furnance	-	02	34000	1020		
4	Vaccum Oven with Vaccum pump	-	02	50000	1500		
5	I.R. Moisture Balance	-	02	16000	480		
6	Color disc for phosphatase	-	02	15000	450		
7	Filtration Appartus/ Assembly	-	01	10000	300		
8	Bunsen burner	-	04	800	240		
9	Grinder Mixer	-	02	10000	300		
10	Tonges	-	10	150	5		
11	Top Pan Balance	-	01	9000	360		
12	Multipurpose Gerber Centrifuge Machine	-	02	20000	600		
13	Bench Autoclave	-	02	12000	360		

14	Automatic Milk Analyzer	-	02	1400000	42000		
15	Butyrometer for fat testing of milk	S	30	1500	45		
16	Pipette	S	20	500	15		
17	Burette ISI mark, Glass	S	10 (10ml) 10 (25ml) 10 (50ml)	500 750 1000	15 23 30		
18	Tilt major	-	20 (1ml) 20 (10ml)	200 200	6 6		
19	Butyrometer Stand	-	10	200	6		
20	Butyrometer Brush	-	20	200	6		
21	Pipette Brush	-	20	200	6		
22	Sample Bottle 100ml	-	100	1000	30		
23	Lock stopper for Butyrometer	-	100	500	15		
24	Key for Lock Stopper	-	20	200	6		
25	Lactometer Zeal type	-	10	2000	60		
26	Lactometer Jar	-	20	400	12		
27	Hand Driven Gerber Testing Machine	-	02	12000	360		
28	Incubator	-	01	15000	450		
29	Bacterial Colony Counter	-	01	4000	120		
30	Milk Adultration Detection Kit	-	05	12500	375		

31	Bulk Milk Cooler Make- De laval/IDMC/L&T	-	01 no.	340000	10200		
32	Milk Dump Tank Make-De laval/IDMC/L&T	-	01 No	80000	2400		
33	Over Head Milk Tank for Pouch Packing Machine Make-De laval/IDMC/L&T	-	01 No.	96000	2880		
34	Milk Pasteurizer Make: Alfa Laval/HMT/L&T/Vul can	-	01 Set	705000	21150		
35	Double headed Milk Pouch Packing Machine	-	01	980000	29400		
36	Food Grade Polythene Film for milk packing (Supply F.O.R. IDDP Raigarh) (Supply F.O.R. IDDP Ambikapur)	-	3000 Kg. 2000 Kg	405600 270400	12168 8112		
37	DOUBLE DOOR DOUBLE CONTROLLER ULTRA LOW TEMPERATURE FREEZER LOWEST TEMPERATURE – 86⁰C	-	01	6,00000	18,000		
38	Power Pack System	-	01	100000	3000		
39	ELISA READER	-	01	300000	9000		

40	CO₂ Incubator	-	01	25000	750		
41	Binocular laboratory microscope	-	01	100000	3000		
42	Trinocular Microscope	-	01	100000	3000		
43	Refrigerator Different capacity 165 liter &/or 230 liter	-	103	1522000	45660		
44	Single Distillation Unit	-	03	24000	720		
45	Double Distillation ASSEMBLY	-	03	45000	1350		
46	AUTOCLAVE (Vertical)	-	03	30000	900		
47	AUTOCLAVE (Portable)	-	03	24000	720		
48	STIRRED WATER BATH (DIGITAL)	-	03	15000	450		
49	HOT AIR OVEN –	-	04	24000	720		
50	INCUBATOR BACTERIOLOGICAL	-	03	18000	540		
51	LABORATORY HOT PLATES	-	03	6000	180		
52	Deep Freezers (Horizontal)	-	3	45000	1350		

53	Deep Freezers (Glass Type)	-	3	45000	1350		
54	REFRIGERATED MICRO CENTRIFUGE	-	03	60000	1800		
55	HIGH SPEED RESEARCH CENTRIFUGE	-		450000	1350		
56	LAMINAR AIR FLOW (HORIZONTAL)	-	4	120000	3600		
57	DIGITAL pH METER	-	1	18000	540		
58	Electronic Weighing balance we	-	3	12000	360		
59	AUTOMATED HEMATOLOGY ANALYZER	-	3	1500000	45000		
60	Cold Cabinet	-	18	14850000	445500		
61	Castrator for Bovines (Imported Only)	S	1560	12500000	375000		
62	Castrator for Ovine (Imported only)	S	1400	7700000	231000		
63	Liquid Nitrogen Vertical storage tank- Capacity 6000 lit	-	4	6000000	180000		
64	Conversion kit for straw filling & sealing machine	-	1	400000	12000		

65	Artificial Vagina Sterilizer (12 AV & 24 AV)	-	1	30000	900		
66	Liquid nitrogen transfer device	-	1	19000	570		
67	Liquid nitrogen container – capacity 55 lit (Transport); 55lit (storage)3 lit. (Storage)	S	320 units of – 55 lit.	5600000	168000		
			160 units of – 3 lit.	960000	28800		
68	Poly urethane ear tag, applicator & applicator pin	S	Tag-1500	15000	450		
			Applicator – 100	70000	2100		
			Applicator pin - 300	7500	225		
69	Thermos flask 1 lit ss	S	160	72000	2160		
70	Kidney tray 8”	S	160	20000	600		
71	Forcep for lifting frozen semen goblet 10”	S	160	25000	750		
72	Funnel large 8”	S	160	20000	600		
73	Plastic goblet 65mm	S	4000	20000	600		
74	Dip stick 1 mt.	S	160	10000	300		

75	AI kit	S	160	128000	3840		
76	Frozen semen straws (Imported) 0.5ml & 0.25ml	S	700000	840000	25200		
77	Artificial Vagina 8", 10" & 12"	S	100	60000	1800		
78	Liner for Artificial vagina 18",20"	S	300	15000	450		
79	Cone for Artificial vagina 9" made up of Silicone	S	50	25000	750		
80	Semen Collection tube 15 ml	S	200	17000	510		
81	Anvil/ Anvil Plate	-	1	35000	1050		
82	Solenoid Valve	-	1	30000	900		
83	Plastic Cones (Filling & Sealing Machine IS 4)	S	5000	75000	2250		
84	Product Probe	-	1	10000	300		
85	Photo Meter Bulb	-	5	40000	1200		
86	GEL Filled Electrode	-	2	10000	300		
87	R O Cartridge	-	1	35000	1050		
88	Pro Guard Cartridge long	-	1	55000	1650		
89	Q-Guard	-	1	55000	1650		
90	Quantum Cartridge	-	1	55000	1650		

91	UV lamp – 1.5 ft & 3 ft.	-	24	48000	1440		
92	Whatsman Filter Paper	S	100	40000	1200		
93	Disposable Exam Handgloves	S	5000	7000	210		
94	Disposable Face mask	S	5000	7000	210		
95	Cap disposable	S	5000	7000	210		
96	Disposable Shoes Cover	S	2000	3000	90		
97	Bull Nose Ring SS	S	200	15000	450		
98	Bull Nose Ring Copper	S	100	12000	360		
99	Microscope slide	S	100 pack (pack of 50)	18000	540		
100	Glass Cover slip for microscope slide	S	150 pack (10gm pack)	15000	450		

*** Desired specification of items are given in Annexure 3**

Signature of contractor

Annexure 2 : Format for Financial Bid

Price schedule of items quoted -
(In Rs)

S.No.	Name of item	Make/ Model	Manufacturer	Basic Price inclusive of incidental services	Packing & forwarding charges	Excise duty	Import duty	Freight insurance charges	Sales tax applicable	Total landed price/ price quoted (As in annexure 1)	MRP
1	2	3	4	5	6	7	8	9	10	11	12

Signature of Contractor

Annexure 3: Item wise desired specifications

Item S.No.	Name of item	Specification
1	2	3
1	Butter Trier	Made up of Stainless Steel Overall length 155 mm.
2	Cheese Trier	Cheese Trier made of Stainless Steel Overall length 215 mm.
3	Muffle Furnance	Compact lifht weight, madeof mild steel with Digital Temperature Controller cum Indicator Working Timp.:1150 Deg.C, Max.Temp.: 1200Deg. C, Size : 30x15x15cm
4	Vaccum Oven with Vaccum pump	S/S inner chamber, outside Mild Steel Temperature :50 deg.c.to 130 deg.c. accuracy +/- 1 deg.c. Capable of with standing a Vaccum of 76 cm. provided with temp. regulator indicator Lampand ON/OFF switch to work on 220 Volts AC, with suitable vaccum pump, fitted with digital temperature indicator cum controller Size inner chamber: (Dia.x depth) 250x300 mm.
5	I.R. Moisture Balance	For measuring the moisture contents of materials under exposure to Infra Red radiation, calibration. In moisture percentage the heating is controlled by solid state electronic regulator accuracy of 0.2% by direct reading and 0.1% by estimation complete with all accessories and manual Cap: 10 gm Fitted with Automatic Timmer 0 to 60 minutes
6	Color disc for phosphatase	Disc for phosphatase in milk (Range: 0,6,10,14,18,25,42 (Micrograms P nitrohenol/ml of milk)
7	Filtration Appartus/ Assembly	Fitted with vaccum pump and membrance 300 ml. Funnel with one liter flask filter.
8	Bunsen burner	For heating and cutting of glass rods

9	Grinder Mixer	Motor (ISI Mark) 600 watt.-3 speed function control OverLoad protection for motor Jar Capacity-Liquidizing 1.0-1.5 Ltr. Dry & Wet Grinding 0.75-1.0 Ltrs. Small Jar 0.4 Ltrs. Warranty-minimum 2 yrs.												
10	Tonges	S.S. Various purpose size, 6"												
11	Top Pan Balance	Up to 5 Kg.												
12	Multipurpose Gerber Centrifuge Machine	For determination of fat as housing programmable rotor, speed from 600-1100 rpm steps of 10 rpm an heating up to 68 C to 1 C step. Automatic centrifugation & safety interlocking of lid, switching-off and brake.												
13	Bench Autoclave	Fabricated from heavy duty SS sheet with chrome plated lid provided with 65 mm pressure gauge with two safety valve. Inner basket size 300 x 500 mm With Electric element.												
14	Automatic Milk Analyzer	<p>Microprocessor based</p> <p>a- Fat a Upto 35%</p> <p>b- SNF Upto 15%</p> <p>c- Protein Upto 10%</p> <p>d- Lactose Upto 10%</p> <p>e- Freezing point</p> <p>* The following constituent can be analyzed:</p> <table border="0"> <thead> <tr> <th>Constituent</th> <th>Resolution</th> </tr> </thead> <tbody> <tr> <td>Fat</td> <td>0.01%</td> </tr> <tr> <td>Protein</td> <td>0.01%</td> </tr> <tr> <td>Lactose</td> <td>0.01%</td> </tr> <tr> <td>SNF(solid-non-fat)</td> <td>0.01%</td> </tr> <tr> <td>Freezing point (calculated value)</td> <td>0.001%°C</td> </tr> </tbody> </table> <p>* Product:- Cow's milk, ewe's milk, goats milk buffalo milk etc.Raw milk, full-cream milk, skimmed milk, pasteurized milk, UHT milk, etc.</p> <p>* Sample throughput:- Up to 80 tests per hour.</p> <p>* Sample volume The sample volume is about 12 ml.</p> <p>* Handling:- The operation of the analyzer is menu-driven and therefore easy and clear.</p> <p>* Calibration For the calibration of the device, two reference milks are</p>	Constituent	Resolution	Fat	0.01%	Protein	0.01%	Lactose	0.01%	SNF(solid-non-fat)	0.01%	Freezing point (calculated value)	0.001%°C
Constituent	Resolution													
Fat	0.01%													
Protein	0.01%													
Lactose	0.01%													
SNF(solid-non-fat)	0.01%													
Freezing point (calculated value)	0.001%°C													

		<p>calibrated Calibration is performed automatically.</p> <p>* Measurement technique:- Measuring is carried out by means of a thermos-optical measuring method. Using a pump, the milk sample(about 12 ml) is transferred into two separate measuring cell and then will be analyzed by means of these two measuring units,” Thermal Unit” and an “Optical Unit”</p> <p>* Technical Details:-</p> <ol style="list-style-type: none"> 1. Connected loads <ol style="list-style-type: none"> 1.1 230 V/115V (50-60 Hz) about 180 VA 1.2 12 V (direct current) 2. Water connection for rinsing purposes (about 0.8l/hr) 3. water and samples are drained via a flexible tube(at Zero pressure) 4 printer (parallel Interface) 5 PC installation (serial interface) 6 Dimensions 40 cm X 20 cm (WxHxD) 7 Weight-about 15 kg. <p>With therma printer & required chemicalsall accessories to analyze constituents of milk, fat, snf,protein, lactose & freezing point also able to analyze all type of milk available Indian market</p>
15	Butyrometer for fat testing of milk	ISI mark, Glass
16	Pipette	Glass 10.75 ml. ISI mark,
17	Burette ISI mark, Glass	10 ml 25 ml 50 ml
18	Tilt major	01 ml. 10 ml.
22	Sample Bottle	100 ml
28	Incubator	For bacteriological,Macroprocessor based controller, 3, s.s. shelves inner 45x45x45 ISI
29	Bacterial Colony Counter	Complete with special pen, marking and counting simultaneously counting is retransfer of 4 digit, reset able solid state counter. For uniform light & illumination of magnifying glass and fluorescent light counter digital.

31	Bulk Milk Cooler Make- De laval/ IDMC / L&T	Bulk Milk Cooler, Capacity 2000 Lt. with accessories comprising Milk Tank, Capacity: 2000 Liter Twin Condensing Unit with MT-32 Compressure for R-22 Unit Refrigeration Control panel Milk Tank Control Panel
32	Milk Dump Tank Make-De laval/ IDMC / L&T	SS 304 mm Cap:500 Lt. with two way valve 38 mm with adjustable 4 legs Rectangular
33	Over Head Milk Tank for Pouch Packing Machine Make-De laval/ IDMC / L&T	SS 304 mm Cap:500 Lt. with two way valve 38 mm with adjustable 4 legs Round shape
34	Milk Pasteurizer Make: Alfa Laval/HMT/L&T/Vulcan	Capacity : 5000 Lt./Hr. Temperature Programmer: 4/35-78-4°C Regeneration Efficiency 90% HoldingTime : 15 Seconds (Minimum) The pasteurizer shall be comprising of:: A: Control Panel: Control panel made of SS 304 shall be complete with electric wiring, timer, fuses, on/off push buttons to start/stop the defferent motors in the Pasteurization Plant. It shall also habe digital thermometer and timer. B: Milk Transfer Pump: Standard design monoblock milk pump manufactured out of SS 316 material with dairy grade finish. The Milk Pump shall be complete with reputed make 1.0 HP electric motor C: Flow Controller or Orifice Disc: Made of SS 304 to control flow rate and the pressure in the plate pack D : Plate Heat Exchanger: The plate heat exchanger shall consist of regeneration , heating and cooling section. Heat transfer plate shall be corrugated in

		<p>design to have more heat transfer area and better heat transfer co-efficient. The plate shall be supplied with nitrile rubber gaskets to prevent inter-mixing of product and heating/cooling media. The plates shall be compressed between frame and pressure plate made of mS claded with SS 304</p> <p>E: Automatic Flow Diversion Valve:</p> <p>The valve made of SS 304 shall be supplied with actuator to divert the flow back to the receive4r tank automatically in case milk is not heated to pasteurization temperature.</p>
35	Double headed Milk Pouch Packing Machine	Double Headed Mechanical milk pouch packing machine 2500 Strokes or packets/hr. with float balance tank and SS float. With 04 Kg. Tested pressure. With PLC bases. Spare(PLC and onenecessary kit) Three phase motor. SS cover complete with the door for packing 200 ml/500 ml/1000 ml. With machanical rollar
36	Food Grade Polythene Film for milk packing	Food grade polythene film co-extruded 55 to 60 microne for 500 ml. milk pouch packing (Supply F.O.R. IDDP Raigarh) (Supply F.O.R. IDDP Ambikapur)
37	DOUBLE DOOR DOUBLE CONTROLLER ULTRA LOW TEMPERATURE FREEZER LOWEST TEMPERATURE – 86 ⁰ C	<p><u>SALIENT FEATURES:</u></p> <ul style="list-style-type: none"> • Exclusive independently controlled up right double door freezer. • Independent temperature control according to the samples needs. • Frequently used samples can be stores in the top chamber while long term storage items remains undisturbed in the bottom. • Stable temperature with triple silicon gasket. • Rim-heating system to prevent ice collection on the gasket. • Vacuum relief port for easy door opening. • Automatic timer restarts system after power failure. • Washable condenser filter. • Eye level mounted controller. • Four inner doors in the top and bottom chamber to minimize cold air loss during door opening. • CFC free refrigerant system

		<ul style="list-style-type: none"> • Specially designed large capacity air cold condenser and • aerodynamic fan. • Exclusive LBP hermetic compressor enables quit efficient operation. • Anti corrosion inner chamber using stainless steel. • 130mm of high-density polyurethane foam insulation. • High impact powder coated finish. • Heavy-duty wheel swivel casters. <p><u>Control system</u></p> <ul style="list-style-type: none"> • Microprocessor control system • Digital display 0.1⁰C increment • Set point security system with user password. • Top and bottom independent control system. <p><u>Alarm system</u></p> <ul style="list-style-type: none"> • Built in safety alarm system [audible and visual warning] in case of power failure, sudden rise in temperature and open door. • Indicator advises user to clean filter condenser intake filter. <p><u>Technical specification:</u></p> <p>Number of storage chambers :2 [two] Total storage volume :558 ltr. Lowest temperature in upper chamber :-40⁰ Lowest temperature in lower chamber:-86⁰C Chambersize: W750XD620XH600 [mm] Compressor capacity :1.50HP No. of compressor :02 No of outer doors:02 No of inner doors:04 Door latch :Two & independent Door Lock:Two & independent Maximum current drawn :08A Maximum current drawn: 220 V, 50Hz Single Phase A.C To work on Total weight Make :OPERON KOREA ;HERAEUS GERMANY; FORMA</p>
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		USA
38	Power Pack System	<ul style="list-style-type: none"> • Easy to use / intelligent control • Easy Constant voltage or constant current • Easy Intelligent safety cut-out feature <p>Power Station Power supplies are ideal for DNA, RNA and protein electrophoresis as well as blotting. They provide a high degree of sophistication and versatility, yet are extremely easy to program. Three models are available.</p> <p>The sophisticated microprocessor in all Power Station units utilises feedback loops to maintain tight control over operating parameters. A number of safety features are incorporated into the software, including automatic crossover, no-load detection, sudden load change and over-voltage protection. Operation can be timed or continuous, for running up to four gels at one time. Output can be set to either constant voltage or constant current with automatic crossover</p> <p>When the preset limit for either parameter is reached. In the event of a power failure, the unit can be programmed to resume the run with the original settings upon restoration of power, an error code will be shown in the display to alert the user that a power failure has occurred. All operating parameters, including voltage, current and time, are set using the membrane keypad and indicated on the large LED display which is visible across the room.</p> <p>Power Station 200, 5-200 VDC, 0.01 –2A Power Station 300, 10-300 VDC, 4 –400mA Power Station 300 Plus, 10-300 VDC, 04 –500mA</p>
39	ELISA READER	<p>1 Reading Methods photometric single, double wavelength & polichromatism</p> <p>2 Light Source 20W halogen lamp</p> <p>3 Optical Sensor 8 Solid state photodiodes</p> <p>4 Measurement range 400:700nm</p> <p>5 Filters 5 interferential filters 405, 450, 492,550,620nm, possibility to insert up to 8 filters</p> <p>6 Reading range 0-3000 O.D. in single or double wavelength, 0-9000 O.D. in triple</p>

		<p>wavelength.</p> <p>7 Linearity +/-1% from 0.2to 2.5 O.D.</p> <p>8 Precision CV < 3,0% at 0.150 O.D., <2,0% at 1.000 O.D., <2,5% at 2.500 O.D</p> <p>9 Resolution 0.001 O.D.</p> <p>10 Reading time monochromatic <3” – bichromatic <10” triple wavelength <15”.</p> <p>11 Display 64x256 Graphical L.C.</p> <p>12 Keyboard incorporated membrane numerical and functional</p> <p>13 Computer interface RS 232 bidirectional</p> <p>14 Printer internal, graphical, printer, using, 112mm thermal paper. Resolution 256 points / row, speed 20mm/sec.</p> <p>15 Program fixed memory 512kbyte</p> <p>16 Operative condition 5-40C</p> <p>17 8 Reading positions</p> <p>18 minimum 10sec. for each monochromatic reading at any wavelength</p> <p>19 controls are provided : negative, cut off, low positive, high positive and positive</p> <p>20 performs readings in absorbance, end point, and kinetic with turbidometric & agglutination applications.</p>
40	Co2 incubator	<p>a)Stainless steel interior</p> <p>b) 150 lit capacity (approx</p> <p>c) automatic start up</p> <p>d) digital read out of temp. & Co2 levels</p>

		<p>e) Internal glass door</p> <p>f) CO₂ range – 0-15</p> <p>g) shelves --- 3 or 4</p> <p>h) Siphon to drain water</p> <p>i) Glass cylinder change over unit with cylinder wall mounting</p>
41	Binocular microscope	<ul style="list-style-type: none"> * Ergonomically designed rugged stand for longtime comfortable usage. Carrying handle should be built-into the stand. It should have built-in adjustable and centerable luminous field diaphragm. * Built-in Transmitted light illumination with 6V 30W halogen lamp should be quoted. * Transmitted light filters blue, green and yellow should be quoted. * Quadruple revolving nosepiece reverse facing with precision click stops, for easy change of objectives * Abbe Condenser with iris diaphragm , numerical aperture 1.25 with centerable and height adjustable drive for perfect Koehler illumination. * Mechanical Stage should have a good ball bearing specimen holder and should have coaxial X and Y movement with the size 133 to 140mm x 125 to 135 mm. The travelling range of the stage should be 74mm in X direction and 30 mm in Y direction. * The stage movement in Z axis should be 15mm to 20 mm stroke in coarse movement and 2 to 2.5 microns scale interval in fine focus graduation. * Trinocular tube with inclination of 30deg. with swiveling eyepiece tube and adjustable viewing height of atleast 35mm. Interpupillary distance should be variable between 50 mm to 74mm or better. The binocular tube should have a beam splitting ratio of 50% for observation and 50% for documentation. * 100% perfect “Koehler Illumination” setting is possible due to focussable & centering condenser and variable field diaphragm. * Eyepieces (anti-fungus) with 10x magnification,

		<p>field of view 20mm and should be suitable for spectacle wearers. Eyepieces should have ± 5 diopter adjustment.</p> <p>* High contrast Fully Plan Achromatic objectives, 4x/0.10, 10x/0.25, 40x/0.65 and 100x/1.25 oil. 40x and 100x front optics are spring loaded.</p>	
42	Trinocular Microscope		
		<p>Stand</p> <p>Rugged and sturdy stand with the following features:</p> <ul style="list-style-type: none"> (a) Built-in stabilized electronic power supply for 12V / 35W tungsten illumination, suitable for 230V 50Hz power supply. (b) Co-axial coarse and fine harmonic drive focusing knobs, low positioned for convenient operation. (c) Built-in filter magazine for four filters with 3 neutral density filters 0.015, 0.06 and 0.25. (d) Built-in variable field diaphragm for transmitted light illumination 	
		<p>Optics</p> <p>Microscope should have Infinity Colour Corrected (ICS) optics with high contrast and resolution.</p>	
		<p>Nosepiece</p> <p>6x revolving nosepiece (capable of accommodating upto 6 objectives) mounted on ball bearing with highly precise click stops. It should be inclined backwards for convenience of specimen viewing and operation. It should have slots for analyser and compensator for quantitative polarisation upgradation.</p>	
		<p>Mechanica</p> <p>Ball bearing mounted X-Y</p>	

		I Stage	mechanical with low positioned co-axial knobs, right handed, with scanning area of 75x50 mm. X-Y movement should be graduated with vernier scale for ease reproduction of the field. Simple spring loaded stage clamp for convenient operation. The stage should be ceramic coated for scratchproof operation.	
		Binocular Phototube	Binocular Phototube should be of infinite tube optics. The eyepiece tubes should be ergonomically designed with 30° inclination. The eyepiece tubes should be tiltable upwards / downwards for convenient positioning. The interpupillary distance should be adjustable between 55-75 mm.	
		Illumination	It should be with Koehler illumination technique with 12V / 35W tungsten halogen lamp. The illumination should be continuously variable and the level of intensity should be indicated by LED bar. The illumination control knob and ON/OFF switch should be positioned for convenient operation. The lamp should be fixed in separate lamp housing and should be attached to the stand. Automatic illumination setting for microphotography for colour temperature of 3200°K. White filter should be supplied for enhancing the contrast for observation.	
		Condenser	Achromatic-Aplanatic Condenser for bright field with aperture 0.9/AS .It should be incorporated with variable aperture diaphragm.. The Condenser should be mounted on a rack and pinion and also with a centering device. Filter holder for 3 additional filters. Conversion filter 3200 – 5500K and Interference filter green should be attached to the filter	

		holder.	
		<p>Objectives</p> <p>The microscope should be offered with high contrast Plan-Achromatic Objectives with infinity colour corrected optics. The magnification / numerical aperture of the objectives should be: 5x / 0.12; 10x/0.25 ; 40x/0.65 ; and 100x/1.25 oil</p>	
		<p>Eyepieces</p> <p>Wide field focusing eyepieces with minimum 23mm field of view with soft rubber soft eyecups and is</p>	
		<p>Camera Attachment</p> <p>suitable for spectacle wearers. It should be marked with ± 5 diopter settings. The eyepieces should be suitable for graticule insertion.</p> <p>10 mega pixel camera, adapter with image capturing software</p>	
43	Refrigerator Different capacity	165 liter &/or 230 liter ; Single door, frost free; locking facility; Manufacturer must be ISO certified.	
44	Single Distillation Unit	<ul style="list-style-type: none"> ❖ Fully stainless steel. ❖ Unique space saving design – Boiling Chamber at bottom and Condenser at top. ❖ Table top or wall mounted. ❖ Press fit Condenser and Boiling Chamber easily openable for daily cleaning. ❖ Easily (user) replaceable condensor coil –for longer life and better efficiency. ❖ Supplied with all accessories including input water flow rate meter, PVC tubing, haffman clip, mounting screws and silicone tubing for distillate. ❖ Single kettle heater with excessive heat connecto0- 	

		ejection device ❖ The distillate is free from dissolved salts, is clear, colourless, odourless and tasteless and meant for general laboratory purpose.			
		Capacity	Approx. Size	Heater	App. Shipping Details Net (kg.)/ Gr. (kg)/ Volume (M³)
		2 lit/ hr	20 ø x 35cm	1.5kw	2.5 /3.2 /0.035
		4 lit /hr	30 ø x 40cm	3.0kw	3.5 /4.5/0.050
45	Double distillation assembly	Double Distillate Quality:			
		Parameter	Values		
		Specific Conductivity	<0.1µS/cm.		
		Total Solids	0.1mg/ltr		
		Silica	<0.01mg/ltr		
		KmnO₄ Color retention	60 minutes		
		UV Absorbance at 254nm	0.007		
		TOC	Not detected		
		Endotoxin	<0.25 Eµ. ml		
		Yeast & Mould	Zero		
		Total Plate Count	Zero		
		Standard Plate Count	Zero		
		Distillate Quality	Pyrogen Fee		
		Organic Matter	Nil		
46	AUTOCLAVE (Vertical)	Description	Size	Ratings (Watts)	
		AUTOCLAVE – VERTICAL	30 (12”) x 50 (20”) cm	2000	

		<p>This is made of heavy gauge stainless steel. Fitted with pressure gauge, steam release valve and safety valve. The lid is made of stainless steel; die pressed. maximum operating pressure 22 psi (adjustable)</p>	<p>45 (18") x 60 (24") cm</p>	<p>4000</p>								
		<p>➔ Detail Specification:</p> <p>Vertical model- under steam pressure electrically operated at 220/230 Volts AC made of heavy gauge stainless steel. Maximum pressure is 20 Ibs per square inch and working pressure is 15 Ibs. per square inch. The lid is made of stainless steel – Die pressed. It is provided with a pressure gauge, safety valve and a steam release valve and an Extra Safety Valve. Heavy nuts fitted to the bolts keep the Lid in operation. The body is painted with enamel finish and other parts are Chrome plated. The autoclave is complete with electric fitting, plug and cord connections for mains.</p>										
<p>47</p>	<p>AUTOCLAVE (Portable)</p>	<table border="1"> <thead> <tr> <th data-bbox="638 1110 976 1188"><i>Specification</i></th> <th data-bbox="976 1110 1203 1188">Size</th> <th data-bbox="1203 1110 1425 1188">Ratings (Watts)</th> <th data-bbox="1425 1110 1463 1188"></th> </tr> </thead> <tbody> <tr> <td data-bbox="638 1188 976 1451"> <p>AUTOCLAVE – PORTABLE</p> <p>Electrically operated Complete unit made of stainless steel</p> </td> <td data-bbox="976 1188 1203 1451"> <p>30 (12") x 30 (12") cm</p> </td> <td data-bbox="1203 1188 1425 1451"> <p>2000</p> </td> <td data-bbox="1425 1188 1463 1451"></td> </tr> </tbody> </table> <p>Detail Specification:- Electrically operated on 220/230 Volts AC. This is single walled & is made of heavy gauge stainless steel sheet. Maximum pressure is 20 Ibs per square inch and working pressure is 15 Ibs. per square inch. The lid is made of stainless steel – Die pressed. It is provided with a pressure gauge, safety valve and a steam release valve.</p>			<i>Specification</i>	Size	Ratings (Watts)		<p>AUTOCLAVE – PORTABLE</p> <p>Electrically operated Complete unit made of stainless steel</p>	<p>30 (12") x 30 (12") cm</p>	<p>2000</p>	
<i>Specification</i>	Size	Ratings (Watts)										
<p>AUTOCLAVE – PORTABLE</p> <p>Electrically operated Complete unit made of stainless steel</p>	<p>30 (12") x 30 (12") cm</p>	<p>2000</p>										
<p>48</p>	<p>STIRRED WATER BATH (DIGITAL)</p>	<ul style="list-style-type: none"> ❖ Constant temperature and critical applications requiring high degree of temperature accuracy and uniformity. ❖ Resolution: 0.1⁰C, Uniformity: ± 0.2⁰C at 37⁰C. 										

		<ul style="list-style-type: none"> ❖ Stirring achieved by an efficient, continuously rated, self cooling motor with SS shaft and propeller of anti-corrosive material. ❖ External Pumping @ 300ml/min at same level. 																		
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51	LABORATORY HOT PLATES	<p>(Maximum surface temperature 300⁰C)</p> <p>Specification:-</p> <table border="1"> <thead> <tr> <th>Sl n.</th> <th>Description</th> <th>Size:</th> <th>Heat Control</th> <th>Rating (Watts)</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>TOP PLATE IN Mild Steel. ROUND</td> <td>30 (12") cm dia</td> <td>3 heat switch regulator</td> <td>2000 2000</td> </tr> <tr> <td>02</td> <td>TOP PLATE IN Stainless Steel. ROUND</td> <td>30 (12") cm dia</td> <td>3 heat switch regulator</td> <td>2000 2000</td> </tr> </tbody> </table>				Sl n.	Description	Size:	Heat Control	Rating (Watts)	01	TOP PLATE IN Mild Steel. ROUND	30 (12") cm dia	3 heat switch regulator	2000 2000	02	TOP PLATE IN Stainless Steel. ROUND	30 (12") cm dia	3 heat switch regulator	2000 2000
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53	Deep Freezers (Glass Type)	<p>Description</p> <p>Gross volume LTS 300</p> <p>Temperature range -14 Deg C to -23 Deg C</p> <p>Voltage range 180 to 260 volts</p> <p>Refrigerant R 134a</p> <p>Nos of Sliding glass two</p> <p>No. of baskets two</p>																		

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54	REFRIGERATED MICRO CENTRIFUGE	<p>Refrigerated Micro Centrifuge with control panel, having Stepless Speed Controller, Digital speed meter, 0-99min. Digital Timer cum indicator, Alarm at automatic switching off timer, dynamic brake, zero start interlock switch, imbalance safety device, push button switch cum indicator and lid locking switch.</p> <p>The centrifuging chamber is made of stainless steel having CFC Free Cooling System with Digital Temperature Controller cum indicator with a working temp. range of -10⁰C to +40⁰C.</p> <table border="1" data-bbox="716 737 1414 1163"> <thead> <tr> <th colspan="3"><i>Description</i></th> </tr> </thead> <tbody> <tr> <td>Max. Speed</td> <td>RPM</td> <td>16000</td> </tr> <tr> <td>Max. RCF</td> <td>x 'g'</td> <td>17600</td> </tr> <tr> <td>Max. Capacity</td> <td>ml</td> <td>32</td> </tr> <tr> <td>Max. Tube Size</td> <td>ml</td> <td>5</td> </tr> <tr> <td>Width</td> <td>mm</td> <td>360</td> </tr> <tr> <td>Depth</td> <td>mm</td> <td>400</td> </tr> <tr> <td>Height</td> <td>mm</td> <td>350</td> </tr> <tr> <td>Weight (approx)</td> <td>kg.</td> <td>22</td> </tr> <tr> <td>Connected Load</td> <td>KVA</td> <td></td> </tr> </tbody> </table>	<i>Description</i>			Max. Speed	RPM	16000	Max. RCF	x 'g'	17600	Max. Capacity	ml	32	Max. Tube Size	ml	5	Width	mm	360	Depth	mm	400	Height	mm	350	Weight (approx)	kg.	22	Connected Load	KVA		
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56	LAMINAR AIR FLOW (HORIZONTAL)	Supplied completer with satin S.S. Table Top. Transparent front door, Static Pressure Manometer, Built in U.V. Germicidal light and Cock for Gas, air or vacuum line, HEPA filters and pre-filter.														
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57	DIGITAL pH METER	<p>SPECIFICATIONS</p> <p>pH Range : 0 to 14 pH</p> <p>Millivolt Range : s0 to ± 199 mv</p> <p>Slope Correction : 80% to 110%</p> <p>Resolution : 0.01 pH ; mode ± 1 mV ± 1 digit for mV</p> <p>Standardization Range : ± 2 pH approx.</p> <p>Temperature Compensation : 0 to 100°C (manual)</p> <p>Display : 3 ½ - Digital Red LED Seven Segment with automatic polarity & decimal point; mode annunciation by LED</p> <p>Polarizing Current : 10 µA</p>														

		<p>Recorder Output : 10 mV \pm 1mV per pH</p> <p>Power : 230 \pm 10% 50Hz</p> <p>Supplied Accessories : A Combined Electrode with Stand/Clamp and an Instruction Manual.</p> <p>Optional Accessories : Electrode & Calomel Electrode for Potentiometric Titration</p>																								
58	Electronic Weighing balance	<p>Description</p> <table border="1"> <tr> <td>Capacity</td> <td>320g</td> </tr> <tr> <td>Minimum display</td> <td>0.001g</td> </tr> <tr> <td>Repeatability (standard deviation)</td> <td>0\leq0.001g</td> </tr> <tr> <td>Linearity</td> <td>\pm0.003g</td> </tr> <tr> <td>Response time (approx)</td> <td>1.0 – 1.2 sec.</td> </tr> <tr> <td>Ambient temperature</td> <td>5 – 40⁰C/ 41 – 104⁰F</td> </tr> <tr> <td>Temperature coefficient of sensitivity (10-350^C)</td> <td>\pm 5ppm/⁰C (10-30⁰C)</td> </tr> <tr> <td>Pan size (mm)</td> <td>100 x 100 (mm)</td> </tr> <tr> <td>Dimensions (approx)</td> <td>170 w x 240Dx 75H mm</td> </tr> <tr> <td>Weight (approx)</td> <td>2.2 kg.</td> </tr> <tr> <td>Power requirements</td> <td>AC adapter;90V – 264V, - 15% - +10%, 50/60Hz</td> </tr> <tr> <td>Display</td> <td>LCD</td> </tr> </table>	Capacity	320g	Minimum display	0.001g	Repeatability (standard deviation)	0 \leq 0.001g	Linearity	\pm 0.003g	Response time (approx)	1.0 – 1.2 sec.	Ambient temperature	5 – 40 ⁰ C/ 41 – 104 ⁰ F	Temperature coefficient of sensitivity (10-350 ^C)	\pm 5ppm/ ⁰ C (10-30 ⁰ C)	Pan size (mm)	100 x 100 (mm)	Dimensions (approx)	170 w x 240Dx 75H mm	Weight (approx)	2.2 kg.	Power requirements	AC adapter;90V – 264V, - 15% - +10%, 50/60Hz	Display	LCD
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59	AUTOMATED HEMATOLOGY ANALYZER	<p>1 Parameters :-</p> <p>WBC,RBC,HGB,HCT,MCV,MCHC,RDW,PLT,MPW,PDW,PC T</p> <p>Additional Prameter for Dog, Cat and horse:</p> <p>Lymph#, Mid#, Gran#, Lymph%, Mid%, Gran%,</p> <p>Histogram for WBC,RBC,PLT</p> <p>2 Principles :-</p>																								

		<p>Electrical impedance method for counting and SFT method for hemoglobin</p> <p>3 Sample Volume :- Prediluted 20ul Whole Blood 13ul</p> <p>4 Throughput :- 25 Samples per hour</p> <p>5 Display :- Color LCD display Resolution : 640x480</p> <p>6 Carryover :- WCB,RBC,HGB 0.5%, PLT 1%</p> <p>7 Input/Output :- RS232x2, 1parallel printer (Optional) 1 bar code scanner (Optional) 1 keyboard interface</p> <p>8 Printout :- Thermal recorder, 50mm width paper, Various printout formats, printer optional</p> <p>9 Dog, Cat, Horse, Pig, Cow, Buffalo & Goat + 4 programmable on request</p> <p>10 automatic sample probe cleaning</p> <p>11 data storage of 10000 results with histograms</p> <p>12 3 part differential of WBC 18 parameters + 3 histograms</p>
60	Cold Cabinet	<p>Cold Cabinet (Walk-in Coolers)</p> <p>Basics of design</p> <p>Walk-in-Cold room dimensions : 173.5" x 127.5" x 111" (In Inches) (External Dimensions)</p> <p>Internal Volume of the Room : 1199.5 CFT</p>

	(Approx)	
	Quantity of the Room	: 1 No.
	Room Temperature required	: 2 ⁰ C to 8 ⁰ C
	Insulation type for Chiller panels with 0.5mm.	: 60mm thick PUF
		Thick Pre-painted
	G.I. Sheet both sides.	
	Flooring	: PUF Slab having the thickness of 60mm.
		Having the upper
	layer of Anti Skid GI.	
	Incoming product temperature	: 22-25 ⁰ C
	Product Load	: 60 - 80 Vaccine Boxes
	Pull down time	: 24 Hours.
	Door Size	: Clear door opening of 34" x 78" (1 No.)
	Ambient temperature	: + 44 ⁰ C
	Cooling unit type	: Air cooled, Split type
	Density of panels	: 40 ± 2 Kg. / Cubic meter
	Type of compressor	: Hermetic
	Electric Supply	: 230V / 1 Ph / 50 Hz
	Compressor run time	: 16 Hours
	Refrigerant	: R 22
	Door Type	: Heavy duty hinges
	Door frame Construction	: All accessories like light switch, Temperature indicator are fitted on the door frame

		<p>Construction of the door : Flushed type</p> <p>Panel Assembly sealing : PVC gaskets to form a tight joint</p> <p>Temperature indicator : Digital Temperature indicator</p> <p>Compressive strength at 10% : 2-6 Kg. / Square meter</p> <p>Adhesive strength : 2.9 Kg. / Square meter</p> <p>Dimensional Variation : < 2% (48 Hours)</p> <p>Closed cell content : 90-95%</p> <p>Thermal Conductivity : 0.019 - 0.022 W/m. deg. C</p> <p>Water absorption : 1 w / v</p> <p>Safety latch at door : Switch type</p> <p>Blowing agent : R-141B (Non CFC)</p>
61	Castrator for Bovines (Imported Only)	<p>Original Imported with manufacturers identification, Bloodless Castrators with Spanner for tightening the jaws. Embossed with manufacturer identification, drop forged made from carbon steel with rigid, smooth & finely machined, standard interchangeable joints & fittings & with high gloss smooth</p> <p>The manufacturing process & quality to be Governed by Highest International Quality Assurance EN 46001 & DIN 90001 Certification packed in company printed packing material. The instrument has the following specification:</p> <ol style="list-style-type: none"> Weight (with Spanner): 2.2 Kg - 2.5 Kg. Length: around 450 mm. Width & K jaws: 73 cm to 75mm. Material (Steel): C 55 Hardness: 40 – 45 HRC. Closing force at the extremity of the branches: 35 + 5N. <p>Space at Joint for High performance both sizes should have extra space at Jaws Joint 'B' for extra leverage & pressure at Jaw Joint 'A' & Arm Joint 'B' 'C' on final compression (Castration): - 4 mm. Handle made of Fiber unbreakable Raw Material.</p>
62		

	<p>Castrator for Ovine (Imported only)</p>	<p>Original Imported with manufacturers identification, Bloodless Castrators with Spanner for tightening the jaws. Embossed with manufacturer identification, drop forged made from ss with rigid, smooth & finely machined, standard interchangeable joints & fittings & with high gloss smooth</p> <p>The manufacturing process & quality to be Governed by Highest International Quality Assurance EN 46001 & DIN 90001 Certification packed in company printed packing material. The instrument has the following specification:</p> <ul style="list-style-type: none"> a) Weight (with Spanner): 0.63 Kg - 0.69 Kg. b) Length: around 230 mm. c) Width & K jaws: 41 to 43 mm. d) Material : Steel e) Hardness: 40 – 45 HRC. g) Closing force at the extremity of the branches: 70 + 5N. <p>Space at Joint for High performance both sizes should have extra space at Jaws Joint 'B' for extra leverage & pressure at Jaw Joint 'A' & Arm Joint 'B' 'C' on final compression (Castration): - 1 mm.</p>
63	<p>Liquid Nitrogen Vertical storage tank- Capacity 6000 lit</p>	<p>Liquid Nitrogen Vertical storage tank- Capacity 6000 lit</p> <ol style="list-style-type: none"> 1. Gross & Net capacity in liters - Not less than 5800 liters. 2. Configuration – Vertical 3. Inner vessel - Designed & Manufactured under ASME(American Society Of Mechanical Engineer); Boiler & pressure vessel code section VIII Div-1. Design temperature - 196 to +37 C 4. Material of construction- inner vessel- Stainless steel grade SS 304 5. Inner vessel- Maximum allowable working pressure/ Set pressure of safety valve Kg/cm²(g)- 2/0.9 6. Outer vessel - Designed & Manufactured under CGA-341 code(Pressure vessel code) 7. Material of construction- Outer vessel- Carbon steel CS/IS2062GrB 8. Outer vessel - Maximum allowable working pressure Kg/cm²(g)- 1.05 9. Static Evaporation loss rate per day of LN₂ as % at STP-

		<p>Not more than 0.80</p> <p>10. Type of insulation - Multilayer super insulation</p> <p>11. Standard accessories - Pressure building coil, Safety valve, Bursting disc, DP gauge, Pressure Building regulator, Hose pipe of sufficient for filling of LN2 tank & LN2 containers.</p> <p>12. Experience to manufacture super insulated tanks and vessel of at least 5 years.</p> <p>13. Satisfactory certificates from the users of similar super insulated tanks.</p> <p>14. Installation of Tank at appropriate site will be done by tank manufacturer. The cost of civil work required & installation charges must include in the tank cost.</p> <p>15. Testing & proper functioning of the tanks is to be done & demonstrated by supplier at the site of installation. The arrangement of Liquid nitrogen required for testing will be done by supplier.</p> <p>Manufacture must be ISO certified</p>
64	Conversion kit for straw filling & sealing machine	<p>Conversion kit for straw filling & sealing machine</p> <p>Conversion Kit for converting from medium to mini system for Filling & Sealing Machine (Model MRS3 of IMV) used for filling and sealing artificial insemination straws. It should come complete with Drum, belts, Anvil Plate, Sonotrode, Long Needles (30 Nos) short Needles (9 Nos). After conversion machine should have production capacity of minimum 12500 Straws per hour and should be integrated with existing IMV Ink jet Straw printing machine to work as Integrated System for Filling, Sealing & Printing of Mini Straws.</p> <p>Manufacturer must be ISO certified.</p>
65	Artificial Vagina Sterilizer (12 AV & 24 AV)	<p>Artificial Vagina Sterilizer (12 AV & 24 AV)</p> <p>Made up of SS, Hanger capacity – 24 AV’s; Temp. Range – 100degree C to 300degree C, Thermostatic control with digital display. Manufacturer must be ISO Certified.</p> <p>Made up of SS, Hanger capacity – 12 AV’s; Temp. Range – 100degree C to 300degree C, Thermostatic control with digital display.</p>
66		

	Liquid nitrogen transfer device	<p>Liquid nitrogen transfer device</p> <p>Electric Transfer device- for transferring LN2. Manufacture must be ISO certified.</p>																
67	Liquid nitrogen container – capacity 55 lit (Transport); 3 lit. (Storage)	<p>Liquid nitrogen container – capacity 55 lit (Transport); 3 lit. (Storage)</p> <p><u>CAPACITY OF VESSEL</u></p> <p>Following tolerance in the capacity of vessels shall be acceptable:</p> <table border="1"> <thead> <tr> <th>S.No</th> <th>Type of Vessel & Capacity</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>03 liter Semen Storage Type Vessels</td> <td>02 liter</td> <td>04 liter</td> </tr> <tr> <td>2.</td> <td>55 liter Wide neck Semen Storage Type Vessels</td> <td>46 liter</td> <td>55 liter</td> </tr> <tr> <td>3.</td> <td>55 liter LN2 Transport Type non-pressurized Vessels</td> <td>50 liter</td> <td>57 liter</td> </tr> </tbody> </table> <p><u>MATERIAL OF CONSTRUCTION</u></p> <ol style="list-style-type: none"> For the 03,55 liter vessels (inner and outer vessels) shall be manufactured out of austenitic stainless steel conforming to AISI-304 or any other equivalent code or out of aluminum alloys conforming to AISI-5052 or IS:737 or any other equivalent code suitable for cryogenic application. Vessels shall be insulated by using multi layer super insulation technique and the insulation material used shall have resistance against conductive and radioactive heat transfer. The annular space should be provided with suitable type and adequate quantity of absorber material to ensure maintenance of quality vacuum. After evacuating the annular space to the desired vacuum level, the pump out port on the outer shell shall be provided with suitable vacuum seal and a protective cap. <p>CANISTERS:</p> <p>Each canister shall have a suitable handle propping up for getting accommodated on the stopper grooves. The material of the canister shall be ASI 304 for cryogenic application.</p>	S.No	Type of Vessel & Capacity	Minimum	Maximum	1.	03 liter Semen Storage Type Vessels	02 liter	04 liter	2.	55 liter Wide neck Semen Storage Type Vessels	46 liter	55 liter	3.	55 liter LN2 Transport Type non-pressurized Vessels	50 liter	57 liter
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Details of canisters & capacities should be as under:

S . N	PARTICULARS	UNIT	03Liter	55 Liter (Storage)	55 Liter (Transport)
1	Number of canisters	No.	06	11	-
2	Neck Diameter	mm.	51	120	51
3	Straw holding capacity 0.5 ml	No.	720 (Single level)	8000 (Double level)	-
4	Straw holding capacity 0.25 ml	No.	1560 (Single level)	18000 (Double level)	-

Note: Variation of 2% is permissible in the above parameters .

RUBBER PROTECTION RING: Each vessel will be protected with 2 No. of rubber protection rings and a bottom pad. All the containers should be supplied with prefixed bottom rings & pad. A separate consignment of rings & pads will not be entertained.

TESTING:

i. EVAPORATION LOSS TEST AND STATIC HOLDING TIME:

The evaporation loss of such vessels shall be within the following maximum limits at normal temperature and pressure conditions after specified tests.

S.No .	Capacity of Vessels in liters	Static Evaporation Rate	Static Holding Time (Days)
1	03 Liter	0.15 liter/day	29
2	55 Liter (Storage)	0.38 liter/day	124
3	55 Liter (Transport)	0.43 liter/day	116

Note: Variation of 2% is permissible in the above parameters .

ii. Mass Spectrophotometer Leak Detection (MSLD) test on 100% vessels shall be conducted to ensure leak proof ness of the vessels.

MARKING:

Each vessel shall have the following markings at the appropriate place:

- (a) Name of CSLDA painted with polyurethererance paint.
- (b) Manufacture's Name & Trade Mark
- (c) Model Number
- (d) Serial Number
- (e) Empty Weight
- (f) Full Weight

PACKING:

- i. Each vessel shall be suitably packed to withstand the transport hazards and should protect the vessel from any sort of dent/damage etc.
- ii. Each packing box should bear the exact identification & model no. of the container packed in the box.

QUESTIONNAIRE TO BE FILLED BY THE BIDDERS
Information to be given for all types of LN2 containers
quoted: [03, 35,55 liters]

- 1 Name/Manufacturer's Name
- 2 Model No.
- 3 Ref. of Standard/Code followed in selection of
 - i. Material
 - ii. Fabrication
 - iii. Testing
- 4 a. Material of construction of
 - i. Inner Vessel
 - ii. Outer Vessel

- 4 b. Code/Standard to which these Material Types adheres to
- 5 Insulation Material Type
- a Vacuum Level of Annular space at ambient temperature
- b Is Vacuum Port provided on the outer shell?
- c Is Protective Cap provided on the top?
- d Are the lifters provided with Storage Type & Transport Type Vessels?
- 6 Testing
- a Norms of Evaporation Test
- b Norms of MSLD Test
- c Details of Test Certificates to be provided
- 7 Marking: Details of markings in each vessel
- 8 Technical Specification Complete the table below

S. No.	Characteristics	Unit	Transport Type		Semen Storage Type			
			55 Liter		03 lit		55 lit	
1	Capacity	Liter						
2	Model No.							
3	Empty Weight	Kg						
4	Full Weight	Kg						
5	Outer Diameter	mm						
6	Total Height	Mm						
7	Static Evaporation Loss	Liters/day						
8	Static Holding Time	days						
9	Neck Diameter	mm						
10	Straw Holding capacity	No.						

Desired information/Questionnaire in prescribed format (as given

		<p>above in form of questioner) must be submitted by tenderer, failing which rates will not be considered.</p> <p>Manufacture must be ISO certified</p> <p>Sample of each capacity of container must be submitted by tenderer, failing which rates will not be considered.</p> <p>Note: Attach technical literature of the offered models and relevant information.</p>
68	Poly urethane ear tag, applicator & applicator pin	<p>Poly urethane ear tag, applicator & applicator pin</p> <p>1. POLY-URETHANE EAR TAGS: Must be made from very good quality poly-urethane for use in cattle & buffaloes. The tags should be Laser Printed with numbers as desired. Letters should be clearly visible from distance. In packing of 50 tags Manufacturer must be ISO certified</p> <p>2. APPLICATOR FOR EAR TAGS: Applicator to be supplied must be compatible with the ear tags to be supplied. Manufacturer must be ISO certified</p> <p>3. APPLICATOR PINS: Applicator pins must be compatible with the applicators & tags supplied. Manufacturer must be ISO certified.</p>
69	Thermos flask 1 lit ss	<p>Thermos flask 1 lit ss</p> <p>Wide mouth, ISI marked, SS Manufacturer must be ISO certified</p>
70	Kidney tray 8"	Kidney tray 8" SS
71	Forcep for lifting frozen semen goblet 10"	<p>Forcep for lifting frozen semen goblet 10"</p> <p>Ss 15" & 10"</p>
72	Funnel large 8"	<p>Funnel large 8"</p> <p>Enamel coated, Made up of LN2 compatible material., 8" diameter</p>
73	Plastic goblet 65mm	<p>Plastic goblet 65mm</p> <ul style="list-style-type: none"> • Diameter 65mm, Height 118mm Capacity 365 <p>0.5mlStarws/820 0.25ml Straws</p>

		<ul style="list-style-type: none"> • Diameter 35mm, Height 118mm Capacity 100 0.5ml Starws/200 0.25ml Straws • Diameter 13mm Height 120 mm Capacity 10 0.5ml Straws/25 0.25ml Straws • Manufacturer must be ISO certified.
74	Dip stick 1 mt.	<p>Dip stick 1 mt.</p> <p>Compatible for the measurement of LN2 level., Straight – 1mt. long</p>
75	AI kit	<p>AI kit</p> <p>Samples of the items quoted must accompany the bid document</p> <p>One unit of AI kit should include following items -</p> <p>1. Universal A.I. Gun for French Straw with PVC container Nos. (1) Must be made from stainless steel conforming to AS-304 steel. The A.I. Gun should be individually packed in a PVC container & should have the name of CSLDA printed on it. One end of the container should be fixed & at the other end cap should fix firmly. Manufacturer must be ISO certified</p> <p>2. Universal A.I. Sheath for French straw Nos. 500 (50 x 10) – Made from high quality PVC material, non toxic to spermatozoa. Each pack should contain 50 units of universal AI sheaths. Manufacturer must be ISO certified</p> <p>3. Sheath Container of PVC material for 50 A.I. sheaths Nos. (1) – One end of the container should be fixed & at the other end cap should fix firmly.</p> <p>4. Straw Lifting Forceps Nos. (1) Made from good quality stainless steel & 8 inches in length Should have bent edge suitable for lifting & holding deep frozen semen straw. Manufacturer must be ISO certified</p> <p>5. Scissor Straight sharp/blunt S.S. 15 cm Nos.(1) – Made from good quality stainless steel & 15 cm. long Manufacturer must be ISO certified</p> <p>6. Thermometer Nos. (1) – Thermometer suitable for visualizing temperature of thawing water range from 0⁰C to 50⁰ C. ISI marked.</p> <p>7. Straw cutter Nos. (1) Circular smooth nylon body. Ergonomic design for easy handling. Spring loaded cutting mechanism for cutting the straw</p>

		<p>uniformly. Easy rotational opening & closing system with locking arrangement without any screws. Blade highly durable & rust proof. Diameter 58mm, Width 22 mm.</p> <p>8. Carrying bag in which all the materials of the kits can be arranged systematically. Nos (1) – Made up of good quality PVC cloth material. It should be waterproof .</p>
76	<p>Frozen semen straws (Imported) 0.5ml & 0.25ml</p>	<p>Frozen semen straws (Imported) 0.5ml & 0.25ml</p> <p>Material: The material shall be non toxic & shall not contain any ingredient harmful to sperms. Suitable grade of polyvinyl chloride shall be used.</p> <p>Plug: Polyester viscose and especially designed bead so to have low absorption character while filling. The plug should be smooth and not too tight or loose, so that the plug can be pushed forward.</p> <p>Physical characteristics: The straw shall be free from undispersed raw material, streak and particles of foreign matter, tears and blisters. The straw shall be uniformly smooth, straight and transparent through out the length. The thickness should be uniform through out the length.</p> <p>Manufacture and finish: The plug shall be smooth & shall not be too tight or loose, to facilitate easy movements when pushed forward. The edge of the straw shall be free from visible nicks & cuts. The printing on the outer surface of the straw shall be clear, visible & permanent. The straw shall withstand the heating & deep cold shocks and heating between temperature - 196 °C and 45 °C. The straw shall not develop any crack, bulging and deformity and shall hold the printing ink and print when successively cooled under liquid nitrogen. The straw should be suitably sterilized with ultra violet radiation or ETO, and be free from bacterial load. Manufacture must be ISO certified.</p> <p>Durability: Two years from the date of supply.</p> <p>Bio compatibility: Approved for animal production.</p> <p>Dimensions :</p> <p>1. For French mini Straw (0.25 ml): Length : 133mm +- 1.0mm External Diameter : 1.95mm +- 0.1mm Internal Diameter : 1.65mm+- 0.1mm</p> <p>2. For French medium straw(0.5ml) : Length : 133mm +- 1.0mm External Diameter : 2.80mm +- 0.1mm Manufacture must be ISO certified.</p>

77	Artificial Vagina 8", 10" & 12"	<p>Artificial Vagina 8", 10" & 12" Bovine Artificial Vagina made of neoprene rubber and should withstand Boiling in water for two hours/autoclaving without change in shape and hardness. For 8 " Internal Diameter : 56 +/-2mm Thickness: Minimum 5to 6 mm Length: A. 204 +/-5 mm For 10" Internal Diameter : 56 +/-2mm Thickness: Minimum 5to 6 mm Length: A. 250 +/-5 mm For 12 " Internal Diameter : 56 +/-2mm Thickness: Minimum 5to 6 mm Length: A. 296+/-5 mm Both ends of the hose should be raised up to 5mm and rounded outwards to secure protective liners. It should have metallic vent of non ferrous material with screw able air valve for adjustment of air pressure. All joints should be leak proof. AV should also be provided with four O rings to secure liners and should be made of autoclavable rubber. Manufacture must be ISO certified.</p>
78	Liner for Artificial vagina 18",20"	<p>Liner for Artificial vagina 18",20" a) Smooth, made from latex. Best for young bulls b) Rough, made from neoprene or latex, for a stimulating effect. Manufacturer must be ISO certified.</p>
79	Cone for Artificial vagina 9" made up of Silicone	<p>Cone for Artificial vagina 9" made up of Silicone Well adapted to the artificial vagina's shape. Made up of Silicone . Solid texture, which enables the cone to dry out completely of its own. • Manufacturer must be ISO certified.</p>
80	Semen Collection tube 15 ml	<p>Semen Collection tube 15 ml a) Made up of glass, 15 ml. graduated centrifuge conical bottom, sterile, with rim. b) Can be dry heat sterilized at 180 ° C in one hour. • Manufacture must be ISO certified.</p>
81	Anvil/ Anvil Plate	Anvil/ Anvil Plate

		Compatible with IMV make IS – 4 filling & sealing machine. Manufacturer must be ISO certified.
82	Solenoid Valve	Solenoid Valve Compatible with Bio freezer IMV make. Manufacturer must be ISO certified.
83	Plastic Cones (Filling & Sealing Machine IS 4)	Plastic Cones (Filling & Sealing Machine IS 4) Made up of Non toxic, Non reactive material, Compatible with IMV make IS – 4 filling & sealing machine. Manufacturer must be ISO certified.
84	Product Probe	Product Probe Compatible For Bio Freezer IMV Make Manufacturer must be ISO certified.
85	Photo Meter Bulb	Photo Meter Bulb 6 Volt Compatible For Accue Cell Photo meter Manufacturer must be ISO certified.
86	GEL Filled Electrode	GEL Filled Electrode Compatible For Systronic pH meter Manufacturer must be ISO certified.
87	R O Cartridge	R O Cartridge Compatible For ELIX MACHINE, Millipore make Manufacturer must be ISO certified.
88	Pro Guard Cartridge long	Pro Guard Cartridge long Compatible For ELIX MACHINE, Millipore make Manufacturer must be ISO certified.
89	Q-Guard	Q-Guard Compatible For MILLI-Q MACHINE, Millipore make Manufacturer must be ISO certified.

90	Quantum Cartridge	Quantum Cartridge Compatible For ELIX MACHINE, Millipore make Manufacturer must be ISO certified.
91	UV lamp – 1.5 ft & 3 ft.	UV lamp – 1.5 ft & 3 ft. Compatible For MILLI-Q MACHINE, Millipore make Manufacturer must be ISO certified.
92	Whatsman Filter Paper	Whatsman Filter Paper No. 1 ; Circular shape; Qualitative; 125mm diameter; Pack of 100
93	Disposable Exam Handgloves	Disposable Exam Handgloves Half Sleeves
94	Disposable Face mask	Disposable Face mask Single ply; Universal Size; ETO Sterilized
95	Cap disposable	Cap disposable Universal Size; ETO Sterilized
96	Disposable Shoes Cover	Disposable Shoes Cover Universal Size ;ETO Sterilized
97	Bull Nose Ring SS	Bull Nose Ring SS Standard Size
98	Bull Nose Ring Copper	Bull Nose Ring Copper Standard Size
99	Microscope slide	Microscope slide Ground edges,frosted(75x25x2mm) Manufacture must be ISO certified.
100	Glass Coverslip for microscope slide	Glass Coverslip for microscope slide Size: 18x18 and 22x22 mm Manufacture must be ISO certified.

Signature of Contractor

Specimen 1: Covering Letter

Dated:

To,

The Director Veterinary services
Government of CG
GE Road,
Raipur 492001, Chhattisgarh

Subject: Technical Proposal for supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers to the Directorate Veterinary services, Raipur, Chhattisgarh

Dear Sir,

This is in reference to your tender notice dated _____ inviting proposals for the above supply. We _____ (name of the Organization) are pleased to submit our proposal for the above supply.

We have enclosed supporting information/documents with respect to technical proposal in Envelope 1 to aid in evaluation of our proposal and financial Bid in Envelope 2 in separate sealed cover.

We hereby certify that all the documents and information contained in the submissions are true and correct to the best of our knowledge. We also state that we have read and understood the terms and conditions mentioned in the tender document and agree to abide by them. We further state that we are ready to undertake such supply order as per requirements laid down in the tender document.

We understand that submission of this bid does not confer any right to us for selection. We also understand that the Purchaser reserves the right of the accepting the tender in whole lot or distinct part of it or the supply can be distributed between more than one tenderer.

For any clarifications Mr. _____, of _____ (Name and Address with Telephone Number) may be contacted.

Thanking You,

Yours truly,

Name and Signature of Authorized Signatory

(Note: Proprietor/Partner of Firm/Director of Company will sign the letter)

Specimen 2: General Information about Bidders

1. Name of the Firm
2. Address of the Firm for Correspondence:
.....
3. Constitution of the Firm
(Proprietorship, Company, Partnership etc)
4. PA Number of the Firm
5. Year of Incorporation of the Firm
6. In case of non proprietary firm, Name of Authorized Person for signing the tender: -
.....
(Encl. Power of attorney and Deed letter)
7. Name and Address of all the Partners/Directors (in case of Partnership firm/Company):

Signature of Contractor
With seal

Specimen 3: Agreement Bond (Non Judicial Stamp Paper of Rs 100/-, Signed and Notarized)

AGREEMENT BOND

I/We hereby tender for the supply of Instruments/Equipments for Dairy Laboratory, Disease Investigation Laboratory, Cold Cabinet, Breeding, Artificial insemination & Liquid Nitrogen Containers to the Government of Chhattisgarh acting through the Director Veterinary Services, Chhattisgarh, Raipur, (hereinafter called purchaser) for supply of items at the rates mentioned in the schedule of this memorandum in accordance with the terms and condition. I/We here by agree to abide by and fulfill the terms of this tender and all conditions of contract opened here to, or in default there of to forfeit the security deposit and pay to the said Government of C.G. or his successors, the penalties of sum of the money mentioned in the said condition.

In case I/We fail to undertake the supply of commodities or violate any of the said terms and conditions of contract dated this day of 2008, I/We understand that the sum of security deposit, the full value of which will be absolutely forfeited by the said purchaser without prejudice to any other rights or remedies to the said purchaser in the office.

Witness.....

Address.....

Occupation.....

Signature of Contractor
(Name & Seal.....)

The above tender is hereby accepted by me on behalf of Government of Chhattisgarh, Dated2008.

**Director
Veterinary Services
CG Raipur**

Specimen 4: Performance Statement in an affidavit before the Executive Magistrate/Public Notary executed on a Non judicial stamp paper of Rs 50/-

**PERFORMANCE STATEMENT
(For a period of last two years)
(2006-2007 & 2007-2008)**

Name of the Firm: _____

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered items	Value of order (Rs)	Delivery period		Remarks indicating reasons for late delivery, if any	Was the supply of items satisfactory?(attach a certificate from the Purchaser/Consignee)
				As per Original contract	Actual		

Signature of contractor

Specimen 5: Acceptance of Terms and Conditions in an affidavit before the Executive Magistrate/Public Notary executed on a Non judicial stamp paper of Rs 50/-

Acceptance of Terms and Conditions

To,

Director
Veterinary Services, Chhattisgarh, Raipur

Dear Sir,

We submit here with our proposal on your Tender Notice..... Dated with our quotation against respective items. We have carefully perused the Terms & Conditions of the Tender document and accept the same.

For, and on Behalf of the firm

(Firm's Name & Address)

(Signature of Authorized Signatory)

WITNESS:

Signed in my presence:

Name :.....

Designation :.....

Seal :.....

Notary Public

(With Name & Complete Address)

Specimen 6: Details of Persons who are working with the Manufacturer/Contractor who have relatives of any Gazetted officers of Veterinary departments of CG

A list showing the name of the persons who are working with the contractor and are near relations of any Gazetted officers of Vet. Departments in C.G.

Sr. No.	Name of persons working with contractor	Related to which Gazetted Officer of Vet. Dep't.	Nature of relation	Remark
1				
2				
3				
4				

Signature of Contractor

Specimen 7: Details of Manufacturer & authorized dealer

Name of the Tenderer & Full Address

Name of Manufacturer, Full address, Phone Nos., Fax nos, Email
.....

Manufacturers Date of Inception

Manufacturers License No. & Date

Issued by

Valid up to

Details of Installed Production Capacity and Actual Production for the year 2007-08

S.No.	Name of item	Installed Production Capacity	Actual Production for the year 2007-08

*The details of manufacturing unit shall be for the premises where items quoted are actually manufactured.

Signature of Contractor

Specimen 8: NAME, MODEL/MAKE , SPECIFICATIONS OF ITEMS QUOTED

List of items quoted -

S.No.	Name of Item	Model/Make & Manufacturer name	Specification

Signature of Contractor

Specimen 9: LIST OF SAMPLES SUBMITTED

List of samples submitted -

S.No.	Name of item	Model/Make	Packing	No. of units submitted

Signature of Contractor