

Tender ID: 2017_DARE_237689_1

Please follow the link to participate in tender :

<https://eprocure.gov.in/eprocure/app?component=%24DirectLink&page=FrontEndViewTender&service=direct&session=T&sp=SufzdMcLpA%2FOWdJ5tp8p5%2BA%3D%3D>

MAKHDOOM, P.O. FARAH-281122, MATHURA (UP)
Phone No. 0565-276 3380, 27 63327 Fax No.276 3246

F. No.5-12(11)/CP&C/2017

Dated: 24th Aug., 2017

NOTICE INVITING e-TENDER

The Director, Central Institute for Research on Goats, Makhdoom, P.O. Farah-281122, Mathura (UP) invites e-tenders on behalf of the Secretary, ICAR, New Delhi for the purchase of various equipment of approximate value of Rs.38.95 lakh for DBT,NASF,OPZD and DST Project.

Bid Document Download Start Date (Online)	28.08.2017.
Bid Submission Start Date (Online)	28.08.2017
Bid Submission End Date (Online)	18.09.2017
Receipt of EMD at CIRG, Farah	28.08.2017 to 18.09.2017 -11.30 A.M.
Date of Technical Bid Opening (Online)	19.09.2017 – 12.00 NOON
Date of Financial Bid Opening (Online)	29.09.2017 – 3.00 P.M.

Name & Specification of the equipment, terms & conditions of supply, ITB and GCC may be seen and downloaded from our Institute website www.cirg.res.in and CPP (Central Procurement Portal; www.eprocure.gov.in).

**ASSTT. ADMN. OFFICER
FOR & ON BEHALF OF DIRECTOR**

**ICAR-CENTRAL INSTITUTE FOR RESEARCH ON GOATS
MAKHDOOM, P.O. FARAH-281122, MATHURA (UP)
Phone No. 0565-276 3380, 27 63327 Fax No.276 3246**

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NOTICE INVITING e-TENDER

The Director, Central Institute for Research on Goats, Makhdoom, P.O. Farah-281122, Mathura (UP) on behalf of the Secretary, Indian Council of Agricultural Research, New Delhi, invites e-tenders for the purchase of below mentioned equipment for DBT,NASF,OPZD and DST Project.

S. No.	Name of Equipment	Quantity	E.M.D. to be deposited (Rs.)
DBT PROJECT			
1.	Research Microscope with Photography attachment	One	5,000.00
2.	BOD Incubator	One	3,500.00
NASF PROJECT			
3.	Semi-dry western blot unit	One	7,000.00
4.	Gel Documentation	One	13,000.00
Outreach Project on Zoonotic Disease			
5.	Electrophoresis (1D IEF) assembly with power pack	One	3,000.00
DST (GPT) Project			
6.	Retort Pouch Processor Machine	One	19,000.00

Earnest Money Deposit – as mentioned against each equipment will be required. EMD should reach this office in the form of Demand Draft drawn in favour of ICAR Unit CIRG payable at Punjab National Bank, Farah (Mathura) on or before **18.09.2017 -11.30 A.M.**

Important Notes:

1. Tender Documents may be downloaded from Central Public Procurement Portal <http://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll / register before participating through the website <http://eprocure.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at 'Instructions for online Bid Submission'.
2. Only bids received on our e-tendering portal will be considered for opening. Bids in any physical form sent through fax/ email/ courier/ post/ delivered personally will not be considered.
3. CIRG reserves the right to accept / reject any/ all tenders in part/ full without assigning any reason thereof.
4. CIRG will not be responsible for any delay in enrollment or submission of the offer/ up-loading the offer on our e-tender portal for any reason whatsoever. Hence vendors are advised to register in our e-tendering website <https://eprocure.gov.in> & enroll their Digital Signature Certificate (Class – II or above) and upload their quotations well in advance to avoid last minute problems.
5. Any Addendum/ Corrigendum date extension in respect of above tender shall be issued on our website www.cirg.res.in and website <https://eprocure.gov.in> only and no separate notification shall be issued in the press. Bidders are therefore requested to regularly visit our website to keep themselves updated.
6. Earnest money as mentioned above must be attached with the Technical Bid in the shape of Demand Draft drawn in favour of ICAR UNIT CIRG payable at Punjab National Bank, Farah (Mathura). Selected firms will have to deposit SMD (Security Money Deposit) @ total 10% of the

quoted value which may include the already deposited Earnest Money along with the Tender documents.

7. In case of import item(s):-

- (a) The Indian agent will be fully responsible to provide shipment documents/details on behalf of the Principals to this Institute to avoid any kind of demurrage charges, failing which or demurrage payable due to lack of information etc. from the Indian agent, the complete demurrage charges will be recovered from the deposit of the Tenderer and no correspondence will be entertained by this Institute, at any stage, in this regard. Complete information etc. to be incorporated in the Irrevocable Letter of Credit must be furnished clearly to avoid any delay in establishing the L/C in favour of the Principals. Bank charges for any kind of amendment etc. in the Firm L/C, if requested by the authorized Agent/ Principals shall be on account of the Supplier. Further, source of Bank charges, payable in case of Letter of Credit etc. should be clearly mentioned. Each quote should clearly specify the agency commission payable to the Indian Agent after the satisfactory installation of the consignment.
- (b) The conditions of the Irrevocable Letter of Credit shall be final and request for any kind of change in the conditions, extension of date of shipment/negotiations etc. will not be considered normally. However, in exceptional cases on the discretion of Competent Authority (Director, CIRG), extension of L/C (Shipment period) may be granted and all expenses shall be borne by the Supplier. Further, for each item, cost in FOB and CIF, New Delhi may be shown separately. Unit conversion value of quoted currency equivalent to INR may be mentioned for cross checking of expenditure involved.
- (c) The Indian agents who are quoting the foreign equipment should invariably enclose the authorization of the Principal and the difference between the rate of CIF and FOB value.
- (d) The warranty clause should be clearly mentioned in the Technical Bid.

8. Payment: -

(a) Payment for goods supplied from abroad.

- (I) On shipment 90% of the contract price shall be paid through irrevocable letter of credit upon submission of documents detailed in L/C.
- (II) 10% of the contract price will be release just after satisfactory installation / working of equipment / machines etc. as well as on submission / production of Performance Bank Guarantee by the Supplier(s).
- (b) Payment of goods supplied from India: 100 % of the contract price on receipt of goods by the consignee supported by satisfactory installation / working report.

9. Director, I C A R - CIRG, Makhdoom reserves the right to enhance/ reduce the quantity of the items demanded and cancel/accept any or part of the Tenders without assigning any reasons, thereof.

Place: Makhdoom

Date : 24/08/2017

ASSTT. ADMN. OFFICER
FOR & ON BEHALF OF DIRECTOR

भा०कृ०अ०प०-केन्द्रीय बकरी अनुसंधान संस्थान
मखदूम, पोस्ट-फरह-281122, मथुरा (उ०प्र०)
ICAR-CENTRAL INSTITUTE FOR RESEARCH ON GOATS,
MAKHDOOM, P.O. FARAH-281122, MATHURA (U.P.)
Phone No.0565 276 3380, 0565 276 3327 Fax No.0565 276 3246

F. No. 5-12(11)/CP&C/2017

Dated:24th Aug., 2017

To,
M/s

Sub: e-Tender form for the supply of equipment – reg.

Dear Sir,

On behalf of the purchaser, you are invited to submit your most competitive quotation in the enclosed format for the same. You are also requested to submit the following documents along with your quotation:-

1. Schedule of Requirements.
2. Technical Specification
3. Questionnaire
4. Bid Form and Price Schedules
5. Bank Guarantee / FDR for Bid Security.
6. Manufacture's Authorization Form
7. Copy of Registration with DGS&D, New Delhi.
8. Technical Bid and Financial Bid

Each column / blank be filled properly and every papers / documents enclosed with bid documents must be signed / stamped by the authorized signatory of the firms / company.

Instructions to Bidders (ITB) and General Conditions of Contract (GCC) may not be sent along with tender and these may retained by bidders for their information and reference

Due care has been taken to avoid contradiction between stipulation in the ITB, GCC and those in the other sections of the bidding documents. But wherever contradiction arises, if any, stipulations contained in the Schedule of Requirements shall prevail.

Yours faithfully,

Encl: as above.

Asstt. Admn. Officer

(2)

SCHEDULE OF REQUIREMENT (SECTION-IV)

1. Name of the purchaser – The Director
Central Institute For Research On Goats,
Makhdoom, P.O. Farah-281122, Mathura (U.P.)
2. Purchaser's mailing address: The Director
Central Institute For Research On Goats,
Makhdoom, P.O. Farah-281122, Mathura (U.P.)
3. Preparation of Bids:-----
 - I. Price structure _ FOB port of Shipment / F.O.R. CIRG, Makhdoom.
 - II. Language of Bid – English
 - III. List of reputed customers / clients to whom supply has been made during last two years, may be supplied, if any.
 - IV. The amount of Bid Security – Amount as per IFB
 - V. The bid security must be valid for 90 days.
4. Submission of Bids:-----
 - (i) Number of copies required: one.
 - (ii) Deadline for submission of e-Bids is 18.09.2017 – 11.30 A.M.
 - (iii) The Institute has adopted two bid e-tender System in respect of the equipment mentioned above.
 - (iv) The tenderer has to upload two bid i.e. one in the form of Technical Bid and another in the form of Financial Bid.
 - (v) The Technical Bid contains all the documents regarding specifications, whether the rates have been quoted including warranty period, reputation of the firm, authorization of the manufactures, EMD, technical compliance sheet.
 - (vi) The financial bid should contain only the part of the price and price related obligations only.

Document / Papers to be submitted with Tender form:

TECHNICAL BID :

- a. Detailed specifications of the equipment/goods to be supplied. Only one make / model be quoted and no alternative make / model will be considered.
- b. Product Literature / leaflets.
- c. Bid Security
- d. Manufacturing certificate if bidder is manufactures.
- e. Authorization certificate in case bidder is agent/dealer of the manufacturers.
- f. Certified copy of PAN/TTCC issued by Deptt. of Income Tax.
- g. Documents showing capability to carry out suppliers, maintenance, repair & spare parts stocking obligations.
- h. Certified copy of Sales Tax / CST clearance certificate.
- i. Duly completed questionnaires.
- j. Technical compliance sheet duly signed / sealed.

PRICE BID :

- k. Price schedule duly completed enclosed with bidding documents.
- l. Performa Invoice from foreign principal.
- m. A list giving full particulars including available sources and current prices of all spare parts, special tools etc. valid for a period of five years from the date of installation of equipment.
- n. Warranty of the equipment should be at least 12 months.
- o. Prices should be valid at least 90 days from the date of opening of bid.
- p. The bidder should indicate the name of their banker with account number.
- q. Pre-installation requirements, if any.

SCHEDULE OF REQUIREMENTS (SECTION – IV)

- 1. Inspection and Tests:**
 - (i) Certificate showing country of origin
 - (ii) Test certificate / inspection certificate with date name of the issuing Agency, content of specifications (To be filled by bidder)
- 2. Packing:-** The consignment may please be shipped in cardboard packing only. If the consignment is dispatched in wooden packing, the shipper is required to send the Phytosanitary certificate from the country of origin for this purpose.
- 3. Insurance:-** Insurance shall be arranged by the purchaser on F.O.B. value. However, price on C.I.F., New Delhi Airport may also be quoted in price bid.
- 4. Distribution of dispatch Documents:-** All shipping documents and consignment shall be sent through our nominated consolidators.
- 5. Incidental Services:** Banking charges outside India shall be borne by supplier.
- 6. Warranty:** 12 month from the date of installation of the equipment.
- 7. Payment: -**
 - (A) Payment for goods supplied from abroad.
 - (i) On shipment 90% of the contract price shall be paid through irrevocable letter of credit upon submission of documents detailed in L/C.
 - (ii) 10% of the contract price will be release just after satisfactory installation / working of equipment / machines etc. as well as on submission / production of Performance Bank Guarantee by the Supplier(s).
 - (A) Payment of goods supplied from India: 100 % of the contract price on receipt of goods by the consignee supported by satisfactory installation / working report.
- 8. Installation:** To be done within 30 days from the date of issue of our letter for this purpose failing which Liquidated Damage clause shall apply.
- 9. Prices:-** Be quoted on FOB Airport / CIF destination (IGI Airport, New Delhi, India)
- 10. Resolution of disputes:-** By mutual consultation failing which it will be resolved under Arbitration & conciliation ACT, 1996.
- 11. Notices:-** As mentioned GCC clause 31.
- 12. Taxes and duties:** Supplier shall be entirely responsible or payment all taxes, Stamp duties license fees & other levies imported outside India and within India in case of indigenous supplier.

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SECTION-IV
QUESTIONNAIRE

BIDDERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW IN CASE A QUESTION DOES NOT APPLY TO A BIDDER THE SAME SHOULD BE ANSWERED WITH THE REMARK "NOT APPLICABLE" BIDDERS MAY PLEASE NOTE THAT IF THE ANSWERS SO FURNISHED ARE NOT CLEAR AND/OR ARE EVASIVE. THE BID WILL BE LIABLE TO BE IGNORED.

1. Bid No.....Date for bid opening on
2. Offer is open for acceptance.....days.
3. Brand of goods offered.
4. Name & address of manufacturer.
5. Station of Manufacture.
6. What is your permanent Income Tax A/C No.
7. Confirm whether you have attached your latest / current ITCC or certified photocopy thereof
8. Status:
 - (a) Are you currently registered with the Directorate General of Supplies & Disposals (DGS&D) for the item(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.....
.....
 - (b) Are you a small scale unit currently registered with the National Small Industries Corporation (NSIC) under Single Point Registration Scheme for the item(s) quoted ? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration
 - (c) If you are not registered either with NSIC or DGS&D, please state whether you are currently registered with Directorate of Industries of the State Government concerned. If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.

(d) Are you registered under the Indian Companies Act, 1956 or any other Act ?

.....Please
attach certified copy of the relevant registration certificate(s) in confirmation to your above
answer(s)

9. Please Indicate:-

Name & full address of your Banker(s).....

10. Whether you are:-

(i) Manufacturer of the goods quote or

(ii) Manufacturer's authorized agent for those goods.....

11. State whether business dealings with you have been currently banned by any Ministry /
Deptt. of Central Govt. or any State Govt.

.....

Signature of Witness

Name & address of Witness

Signature of Bidder

Full Name, Designation &

Address of the person signing above

For and on behalf of M/srs

.....

(Name & address of the bidding firm)

BID FORM AND PRICE SCHEDULES

Date :

To,

The Director,
Central Institute for Research on Goats,
Makhdoom, P.O. Farah-281122, Mathura (U.P.)

Ref: - Your bidding documents No.....dated.....

Having examined the above mentioned bidding documents, including addenda Nos.....(if any), the receipt of which is hereby duly acknowledged, we, the undersigned offer to supply and deliver(description of goods and services) in conformity with the said bidding documents for the sum as shown in the price schedules, attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods and complete the services in accordance with the delivery schedule specified in the Schedule of requirements after fulfilling all the applicable requirements incorporated in the above referred bidding documents.

If our bid is accepted, we will provide you with performance security as per the instructions specified in G.C.C. clause 7 and in a form acceptable to you in terms of GCC clause 7.5 for a sum equivalent to 10% of the contract price for the due performance of the contract.

We agree to abide by this bid for the bid validity period specified in the ITB cause 15 (read with modification, if any, in the Bid Data Sheet) or for the subsequently extended period. If any, agree to by us and it shall remain binding up on us and may be accepted at any time before the expiration of that period.

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

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

Dated thisday of2017.

Signature

(in the capacity of)

Duly authorized to sign bid for and on behalf of

SECTION VII/3
MANUFACTURER'S AUTHORISATION FORM

To,

**The Director,
Central Institute for Research on Goats,
Makhdoom, P.O. Farah-281122, Mathura (U.P.)**

(Name & address of the purchaser)

Dear Sirs,

Ref. you Bidding documents No.....

Wewho are established and reputable manufacturers of(name and description of the goods offered in the bid) having factories athereby authorize Masers.....(name and address of the agent) to submit a bid, negotiate (as and if necessary and conclude the contract with you against your above mentioned Bidding documents for the above goods manufactured by us.

No company or firm or individual other than Masers..... (name and address of the above agent) is authorized to bid, negotiate and conclude the contract against this specific Bidding Documents for the above mentioned goods manufactures by us.

We hereby extend our full guarantee and warranty as per clause 16 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply against this Bidding Document by the above firm.

Yours faithfully,

.....
.....

(Signature, name & designation)

For and on behalf of Messers.....
(Name & address of manufacturers)

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

FORMAT-II

PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1.	2.	3.	4.						5.	6.	7.
Schedule No.	Item description No.	Accounting Unit & Quantity	Ex-factory / ex-warehouse Use / ex Showroom off the shelf	Excise duty if any	Packing and forwarding	In-land transportation	Insurance other duties & taxes, if any, other than sales tax and incident at costs	Incidental services (Including supervision)	Overall unit price (a+b+c+d+e+f)	Total Price	Sale tax payable, if contract is awarded
			(a)	(b)	©	(d)	(e)	(f)	3x5		

Total Bid price in Rupees: (in figure).....
(in words)

Place:

Date:

Signature of bidder

Name

Business address

Note:-

- a. In case of discrepancy between unit price and total price, the unit price shall prevail.
- b. If nothing to the contrary to this effect is mentioned under Section VII (Technical Specification and Quality Control requirements), the bidder shall give list of spare parts for five years operation separately indicating description, quantity, unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'technical Specifications' given in Section VII

FORMAT-III

PRICE SCHEDULE FOR DOMESTIC GOODS TO BE IMPORTED FROM ABROAD

1.	2.	3.	4.	5.				6.	7.	8.	9.	10.
Schedule No.	Item Description	Country of origin	Accounting unit & quantity	Unit price FOB port of loading	Unit price CIF at port of entry	Inland transportation charges, insurance and other local costs incidental delivery, if specified	Incidental servicing including supervision	Overall unit price (a+b+c)	Total Price	India Agent's name	Indian agent's commission as a % of FOB price included in the quote price	Shipment weight and volume
				(a)	(b)	©	(d)		4x6			

Total Bid price in Rupees: (in figure).....
(in words)

Place:

Date:

Signature of bidder

Name

Business address

Note:-

- a. In case of discrepancy between unit price and total price, the unit price shall prevail.
- b. If nothing to the contrary to this effect is mentioned under Section VII (Technical Specification and Quality Control requirements), the bidder shall give list of spare parts for two years operation separately indicating description, quantity, unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'technical Specifications' given in Section VII.
- c. Indian agent's commission shall be paid in Indian Rupees only. No change due to exchange variation shall be allowed.

SECTION-VII/2

FORMAT OF BANK GUARANTEE FOR BID SECURITY

1. In consideration of the President of India (hereinafter called "the Government") having agreed to exempt _____ (hereinafter called 'the said Contractor(s)'] from the demand, under the terms and conditions of an agreement dated _____ made between _____ and _____ for _____ (hereinafter called "the said Agreement") of security deposit for the due fulfillment by the said Contractor(s) of the terms & Conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. _____ (Rupees _____). We _____ (hereinafter referred (indicate the name of the Bank) to as the Bank") at the request of _____ (contractors) do hereby undertake to pay to the Government an amount not exceeding Rs. _____ against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms of conditions contained in the said Agreement.
2. We _____ (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms of conditions contained in the said Agreement or by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement or by reason of the contractor(s) failure to perform the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.
3. We undertake to pay to the government any money so demanded not with standing any dispute or disputes raised by the Contractor(s) / Supplier(s) in any suite or proceeding pending before any court or tribunal relating thereto our liability under there to our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) / Suppliers(s) shall have not claim against us for making such payment.
4. We _____ (indicate the name of bank) further agree that the guarantee here in contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ office / Department / Ministry of _____ Certified that the terms & conditions of the said Agreement have been fully an properly carried out by the said Contractors and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all liability under this guarantee thereafter.
5. We _____ (indicate the name of bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without effecting in any manner our obligation hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and We shall not be relived from our liability by reason of any such variation or extension being granted to the said contractor(s) or for any forbearance at or omission on the part of the Government or any such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the bank or the contractor(s) / suppliers(s)
7. WE _____ (indicate the name of bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.
8. Dated the _____ day of _____ for _____ (indicate the name of bank).

FORMAT-V

Format of Technical Compliance of Specifications

Name of the Equipment : -----

Sl. No	Name of Specifications / Parts / Accessories of Tender Enquiry	Specifications of Quote Model / Part / Accessory	Compliance Whether Yes or No	Deviation, if any to be indicated in unambiguous terms (The compliance / Deviation should be supported by relevant Technical Literature)	Technical Justification for the Deviation, if any. If specification is superior / inferior than asked for in the enquiry, it should be clearly brought out in the justification
1.	Specifications of the instrument				

Signature of Bidder

Seal : -

Date :-

1. Bidder if offer more than one model for the equipment. In such cases, the Technical Compliance Statement must be enclosed for each and every model separately.
2. If the Bidder fails to enclose the compliance statement, his bid is likely to be rejected.
3. It must be enclosed with Technical Bid.

FORMAT-VI

List of Users for a period of 3 years preceding this bid (For similar equipment, preferable similar model)

S. No.	Order for similar equipment placed by (full address of purchaser with contact person, telephone number)	Description of model	Quantity	Date of completion of delivery as per contract and Date of installation / commissioning as per contract	Reasons, for delay in delivery, installation and commissioning; if any

Signature of Bidder

Seal :

Date :

Note: Enclosure of performance certificate from clients / customers are desirable with Technical Bids.

DBT Project

ITEM NO.1 Specification of MICROSCOPE with Photography

Specifications: A TRINOCULAR RESEARCH MICROSCOPE with high resolution digital camera attachment and built in Fly-Eye lens array or other similar optics device to provide uniform illumination **throughout** the visual field (ANTI-FUNGUS TYPE).

MAGNIFICATION: 40X to 1000X for observation
OPTICAL SYSTEM: Infinity Optical System.
EYE PIECE TUBE: Trinocular tube, should be inclined at 30 degree angle with Interpupillary distance adjustment range of 48-75 mm **Should be anti-fungus type.**
EYEPIECE LENS: 10X with both sides diopter adjustment **Should be anti fungus type.**
OBJECTIVES: High NA. & Long working distance objectives to be provided as following:

<u>OBJECTIVES</u>	<u>N.A.</u>	<u>W.D.</u>
Plan Achromat 4X	0.10mm	18.5mm
Plan Achromat 10X	0.25mm	10.6mm
Plan Achromat 40X	0.65mm	0.56mm
Plan Achromat 100X OIL	1.25mm	0.13mm

NOSE PIECE: Fixed Quintuple nosepiece with inward tilt..
COARSE/ FINE FOCUSING: Manual coaxial coarse/ fine focusing. Coarse motion torque adjustable, Coarse 12.5mm per rotation. Upper limit stopper should be incorporated. Focusing stroke: 25mm.
STAGE: Super hard coated surface.
Rectangular mechanical stage with 75mm x 50mm cross travel range with calibrations using low positioned coaxial x and y motion control. Stage movement & Fine focus should be controlled by single hand.
CONDENSER: Universal or Abbe condenser (N.A. 1.2) with oil immersion with modulator disc. Built-in aperture iris diaphragm.
ILLUMINATION: 12v-30watt halogen lamp precentered. Field unit should have fly eye lens for even illumination throughout the view field. Four extra lamps should be provided for future use.
DIGITAL PHOTOGRAPHY SYSTEM: Digital camera capable of handling very low light images with high density. High pixel resolution without interpolating the software, time lapse facility incorporated within the controlling software of the digital camera. A high end latest chip PC having minimum 1 TB HDD and 4GB RAM and advanced graphics, Dual Layer 16X DVD±RW/±R and a 20" LCD monitor, along with all necessary softwares and image analysis software for image processing and analysis should be supplied.

The equipments should be supplied with appropriate dust cover, instruction manual. On-site training/ demonstrations of the equipment operation/ functions should be provided to the user scientists. Minimum onsite warranty of two years should be provided.

The supplier should be **an ISO certified** well established company with good reputation and experience and should be able to provide onsite service whenever required. The equipment should be supplied with the compatible **stabilizer** and installed satisfactorily in the pathology laboratory of the Animal Health Division of the Institute.

NOTE: Any firm quoting the rate should clearly give certificate from original manufacturer that the firm is an authorized dealer of the company/ manufacturer, and will take responsibility for the after-sale service of the equipment guaranty and warranty should be clearly indicated. Technical literature, write-up etc. on the machinery offered. The tenderer must enclose certificate from his principal to the effect that the dealer is authorized and has been trained in the installation, maintenance and servicing of the equipment.

UPS- The equipment should be supplied with appropriate UPS supply 1KV, offline to take frequent tripping of electricity.

ITEM NO.2: Specification of BOD Incubator

Specifications:

- Internal volume: 450 litres
- No. of shelves: 4
- Temp range: 5⁰C to 60⁰C ± 0.5⁰C
- Temperature control: Microprocessor based with LED display
- Internal Dimensions: 660 x 650 x 1040 (w x d x h) (mm)
- External Dimensions: 800 x 1100 x 1750 (w x dx h) (mm)
- Inner layer: non-corrosive, non-magnetic, AISI grade stainless steel
- Outer body: Powder coated CRCA steel
- Electrical: 220-240v 50Hz single phase
- Preferable features: safety thermostat, high voltage safety cut-off, audio-visual alarm, plexi-glass inner door.

Instrument should provide along with followings accessories:

- With Recommended Voltage Stabilizer from reputed manufacturer
- At least one year warranty on equipment.

The supplier should be an ISO certified well established company with good reputation, experience and should be able to provide onsite service whenever required.

The equipment should be installed satisfactorily in the Microbiology laboratory of the Animal Health Division of the Institute.

NASF PROJECT

Item No.3 Specification of Semi-dry western blot unit

Western Blotting instrument includes Agarose gel support frame, 2 cassettes to hold 1-2 midi or up to 4 mini blotting sandwiches, blot roller, Pkg of 10-7 x 8.5 cm, precut blotting transfer pack. (Semi-dry electrophoretic transfer cell with power supply)

Warranty: minimum 1 year.

The supplier should be **an ISO certified** well established company with good reputation and experience and should be able to provide onsite service whenever required.

The equipment should be installed satisfactorily in the Microbiology laboratory of the Animal Health Division of the Institute.

Item No.4 Gel Documentation

Specifications:

- Gel documentation, chemiluminescence, Fluorescence, Colorimetry / densitometry
- Detector: High quality CCD camera, Image resolution: 8 Mega pixel,
- Pixel size (HxV): 6.45 x 6.45 µm,
- Illumination control: 4 modes (trans-UV, epi-white, trans white, no illumination for chemiluminescence)
- Image analysis Software for DNA and protein gels should be provided.
- Operating temperature: 10-40⁰C
- Operating voltage: 220-230 VAC

- With 2 kva online UPS.
- Warranty: minimum 1 year.

The supplier should be **an ISO certified** well established company with good reputation and experience and should be able to provide onsite service whenever required.

The equipment should be installed satisfactorily in the Microbiology laboratory of the Animal Health Division of the Institute.

Outreach Programme on Zoonotic Diseases

Item No. 5 Electrophoresis (1D IEF) assembly with Power pack/supply

Specifications:

- IEF cell capacity- 2 IPG strips with 7 & 11 cm focusing trays
- Includes cooling unit and foam pads to absorb heat generated during run.
- **Power supply Output:** Constant voltage, constant current, constant power. **Voltage:** 50–3,000 V, **Current:** 0.01–200 mA, **Power:** 1–300 W, Pause/resume function, **Timer control:** 1min-24 hrs with fully adjustable, Programme memory, **Operating conditions:** 0–40°C, Automatic recovery after power failure.
- At least one year warranty.
 - The equipment should be installed satisfactorily in the Microbiology laboratory of the Animal Health Division of the Institute.

DST PROJECT

Specification of Retort Pouch Processor Machine

Tenders are invited from eligible firms that have working experience in India	
1	Description of Function
1.1	Retort Pouch Processor Machine is required for Processing of meat and animal products in retort.
2	Operational Requirements
2.1	System should be accompanied with all accessories
2.2	System should ensure rapid and environmentally safe operation
2.3	The system should have the facility like port to transfer the data to the computer.
3	Technical Specifications
3.1	The retort should work under steam air technology as well as a water spray model by adding a circulation pump and steam injection chamber
3.2	The plant should consist of a horizontal retort, pump for coolant water, an interconnecting pipeline system, a control panel to regulate process parameters and a supporting structure
3.3	Horizontal retort <ol style="list-style-type: none"> 1. The horizontal retort will have a dished door of required locking system and fitted with the following accessories. 2. The retort will accommodate 6 kg of products packed in pouches/cans 3. One heaters adequate for processing 6 kg 4. Pr. Gauge, safety valves, calibrated thermometers. 5. Dial Thermometer, 6. Provision to measure product temp and Fo value. 7. Fully automated PLC,MMI and PC based control system 8. Steam, air and coolant water injection lines with nozzles/sprayers, Neoprene gasket etc.

	High pressure centrifugal pump for coolant water 9. Steam generator electrically heated with pr switch and low water cut off 10. SS circulation pump with circulation line 11. Supporting structure 12. PLC and MMI based control system with 2 channel Fo value monitor and data logging
3.4	High pressure centrifugal pump for coolant water: High head centrifugal pump to inject coolant water. This will feed steam generator while under process
3.5	Operating Pressure and Temperature: 25 PSI max 130 Deg C max
3.6	Steam Generators: Suitable steam generation facility with immersion heater of 9 KW cap each with control Panel to set process temp, pressure and low level cut off to protect the immersion heaters. The process water can be replenished by the coolant high pressure pump.
3.7	Water spray System: A circulation pump in SS with an inline steam injection system to enable the retort to work under water spray technology. Provision for automatic regulation of water level in retort.
3.8	Interconnecting Pipe lines: The interconnecting lines with isolating valves located at convenient points for easy operation. The entire pipeline required during installation to fit into given space must be provided by the firm.
3.9	Supporting Structure: The supporting structure made of good quality stainless steel square or round tubes. Structure must accommodate tank to store coolant water and act as drain tank.
3.10	Controls: Program Logic Controller (PLC) and Man Machine Interface (MMI) based fully automatic provision with a suitable dedicated Desktop or Laptop PC to choose the parameters The parameters must be set from the PC or at the MMI. Provision for Live display of process parameters. Data acquisition with a provision to view, store, retrieve and print data (Printer not in our scope).
3.11	Fo Value Monitor: By the PLC installed in the control system fitted with a high sensitive temp probes (3Nos) for measuring product temperature that has response time of a few seconds. The time temp and time Fo value data are displayed in live mode with an option to display, store, retrieve and print out data for individual cycles.
3.12	Accessories and utilities <ul style="list-style-type: none"> • Suitable compressor with SS pipeline connecting the retort • Storage tank with connecting pipeline in SS • Retort pouch sealing Machine – Impulse type single head sealer with timer control in both heating and cooling mode – foot operated • Retort Cleaning Kit with circulation pump; 5000 pouches • All the required electrical and plumbing accessories • Any other accessory required for successful running of the system. • Design must confirm to Indian standards (IS 2825) • Above plant and utilities must be delivered, installed and commissioned at our Institute without any extra cost.
4	System Configuration Accessories, spares and consumables
4.1	System as specified
4.2	All the accessories required for running the equipment with our desired samples including wire, plugs etc. should be supplied with free of cost.
5	Manpower and Training
5.1	The supplier must provide training for the users of the instruments at site after installation

	and commissioning.
5.2	Training should be provided for at least 4 users for the operation, trouble shooting and general maintenance of the system.
6	Environmental factors
6.1	The unit shall be capable of being maintained continuously in ambient temperature of 0 -50 °C and relative humidity of 15-90%.
6.2	The unit shall be capable of operating continuously in ambient temperature of 10 -40 °C and relative humidity of 15-90%.
7.	Power Supply
7.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug.
8.	Standards and Safety
8.1	Should be compliant to IS 2825
9.	Documentation
9.1	User/Technical/Maintenance manuals to be supplied in English.
9.2	List of important spare parts and accessories with their part number and costing.
10.	Warranty
10.1	Warranty at site for 12 months, 5 years AMC/CMC should be available with service centers in close proximity. It has to be clearly enclosed with the tender document.