

ICAR - CENTRAL INSTITUTE FOR RESEARCH ON BUFFALOES SIRSA ROAD, HISAR

Phone No.01662-281611, website www.cirb.res.in

FILE NO. 1-278/CPS/2017-18

Dated: 17.11.2017

E-TENDER NOTICE

On line tenders in two bid system i.e. (1) Technical bid (2) Price Bid are invited from eligible bidders/firms/agency for supply of 1. FLOWCYTOMETER SEMEN ANALYSER, 2. PHOTOMETER, 3. INTEGRATED SEMEN FILLING, SEALING AND STRAW PRINTING MACHINE WITH SOFT WARE, 4. THERMAL IMAGING CAMERA WITH ACCESSORIED INCLUDING SOFTWARE, 5. HEMATOLOGY ANALYZER, 6.WIDE MOUTH LN2 CONTAINER FOR SEMEN STOARAGE. **Bid Submission end Date is 30.12.2017 up to 2.30 PM. For details, log on to website <https://eprocure.gov.in/eprocure/app>.**

Administrative Officer

ICAR -CENTRAL INSTITUTE FOR RESEARCH ON BUFFALOES
SIRSA ROAD, HISAR-125 001 (HARYANA)
Phone No.01662-281611, Website: www.cirb.res.in

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E-TENDER NOTICE

On behalf of Secretary ICAR, Director, Central Institute for Research on Buffaloes, Hisar (Haryana) invites tenders in the prescribed tender form from the eligible bidders for supply of following equipments as listed below:-

Item No.	Items with Specification	Qty.	Earnest money(in Rs.)																																				
1.	<p><u>FLOWCYTOMETER SEMEN ANALYSER</u> The Flow cytometer with dedicated software for Bovine/ Buffalo Semen Analysis for the following tests; using ready to use kits</p> <ol style="list-style-type: none"> 1. Viability or Concentration 2. Mitochondrial activity 3. Oxidation Molecule D 4. Oxidation Molecule H 5. Viability and acrosome integrity 6. Bacterial Concentration <p>The flow cytometer should have following technical specifications:</p> <table border="1" style="width: 100%;"> <tr> <td>Instrument Quality control</td> <td>Software for evaluation and tracking of instrument performance</td> </tr> <tr> <td>Instrument cleaning</td> <td>automated cleaning functions</td> </tr> <tr> <td>Multicolor Detection Assays</td> <td>Red, green, yellow detection channels</td> </tr> <tr> <td>Semen analysis software</td> <td>Dedicated software for bovine semen sample analysis with pre-defined settings per species and assays.</td> </tr> <tr> <td>Data editing, calculation and reporting</td> <td>Special software for editing, calculation and report presentations</td> </tr> <tr> <td>Laser Optics</td> <td>485-490 nm diode laser</td> </tr> <tr> <td>Forward scatter detector</td> <td>automatic</td> </tr> <tr> <td>Side scatter detector</td> <td>Automatic, photomultipliers with 580-585 nm (PM1), 650-660 nm (PM2), 520-530 nm (PM3)</td> </tr> <tr> <td>Sample testing arrange</td> <td>2,000 to 100,000 cells per test</td> </tr> <tr> <td>Microcentrifuge tubes</td> <td>0.5 mL and 1.5 mL</td> </tr> <tr> <td>Microplates</td> <td>96-wells</td> </tr> <tr> <td>Counting accuracy</td> <td>±5%</td> </tr> <tr> <td>Counting precision</td> <td>≤10% CVs</td> </tr> <tr> <td>Capillary technology</td> <td>The capillary should be able to measure each spermatozoon and no need for alignment nor focusing to do different test. The capillary should be automatically cleaned and dried between each analysis</td> </tr> <tr> <td>96 well automated platform</td> <td>An integrated 96 well automated platform that allows a repeatable, precise in the dark analysis of a conventional 96 well micro plate and 10 tubes</td> </tr> <tr> <td>Portable</td> <td>Compact size allows easy transport from one site to another.</td> </tr> <tr> <td>computer</td> <td>Laptop with appropriate softwares.</td> </tr> <tr> <td>Operating Environment</td> <td>60–95°F (16–35°C), Humidity -10%–90% relative non-condensing, Power- 100–240 VAC, 50/60 Hz, 1 amp maximum current</td> </tr> </table> <p>The Equipment must be quoted with one year warranty including onsite training & installation. The concern should have experience of installing successfully at least three same system with ready to use kits in Animal Semen Analysis Lab around the world, for which necessary documents must be attached. The satisfactory working report from the user also be attached. The supplier/manufacturer should have their office and service centre in India to provide after sales services.</p>	Instrument Quality control	Software for evaluation and tracking of instrument performance	Instrument cleaning	automated cleaning functions	Multicolor Detection Assays	Red, green, yellow detection channels	Semen analysis software	Dedicated software for bovine semen sample analysis with pre-defined settings per species and assays.	Data editing, calculation and reporting	Special software for editing, calculation and report presentations	Laser Optics	485-490 nm diode laser	Forward scatter detector	automatic	Side scatter detector	Automatic, photomultipliers with 580-585 nm (PM1), 650-660 nm (PM2), 520-530 nm (PM3)	Sample testing arrange	2,000 to 100,000 cells per test	Microcentrifuge tubes	0.5 mL and 1.5 mL	Microplates	96-wells	Counting accuracy	±5%	Counting precision	≤10% CVs	Capillary technology	The capillary should be able to measure each spermatozoon and no need for alignment nor focusing to do different test. The capillary should be automatically cleaned and dried between each analysis	96 well automated platform	An integrated 96 well automated platform that allows a repeatable, precise in the dark analysis of a conventional 96 well micro plate and 10 tubes	Portable	Compact size allows easy transport from one site to another.	computer	Laptop with appropriate softwares.	Operating Environment	60–95°F (16–35°C), Humidity -10%–90% relative non-condensing, Power- 100–240 VAC, 50/60 Hz, 1 amp maximum current	01	126000.00
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2.	<p><u>PHOTOMETER</u> Photometer with Diluter and Printer to determine the density/ concentration of bovine semen. The equipment should be pre calibrated / standardized for the calculation of dilution rate and number of semen doses to be prepared can be immediately ascertained and a printable record can be maintained for future use. The equipment should have following technical Specifications:</p> <ul style="list-style-type: none"> ➤ Factory Pre-Calibrated with Quadratic Equation. ➤ Equipped with didymium filter and self calibrate its wavelength each time it is turned ON. ➤ Should perform an auto test of all optics and electronics upon each boot up sequence with systematic printout with date and time. ➤ Waterproof Keyboard resistant to aggressive compound and products. ➤ Permanent real time display of absorbance and wavelength. ➤ Concentration Calculation – Absorption, concentration, extender volume to be added and number of doses to be prepared should be calculated, displayed and 	01	27000.00																																				

	<p>printed with sample number, date & time.</p> <ul style="list-style-type: none"> ➤ Provision of use of calibrated filters to test the repeatability of the unit. Mean, Average, and variance of 4 measurements should be calculated for each filter. ➤ The Dilutor should be capable of creating more than 20 adapted and personalized programs. ➤ For accurate diluting and dispensing of liquid sample up to 1/250000, up to 50 ml per cycle. ➤ Easy tubing installation, easy cleaning system by an adapted program. ➤ Photometer to be equipped with interface port compactable with thermal printer and computer. ➤ Memory – Minimum 50 Performance test memories ➤ Accuracy – ±1.5 nm ➤ Repeatability - ± 1 nm ➤ Photometric range - 400 to 700 nm ➤ Power Supply-Adaptable to use 230-250V/50Hz AC power supply. <p>The Equipment must be quoted with all additional software's and one year warranty including on site training & installation. The concern should have experience of installing successfully at least three such systems in CMU Graded Semen Labs in India, for which necessary documents must be attached. The satisfactory working report from the user also to be attached. The supplier / manufacturer should have their services center in India to provide after sales services and all relevant details should be provided in tender.</p>		
3.	<p><u>INTEGRATED SEMEN FILLING, SEALING AND STRAW PRINTING MACHINE WITH SOFT WARE</u></p> <ul style="list-style-type: none"> • Should Fill, Seal and Print around 12,500 Straws (0.25 ml) per hour, 4 Straws at a time. • Should have Hopper for minimum 3500 Mini (0.25) Straws holding capacity. • Printing should be readable and permanent on mini semen. • Should have facility of 128 condensed Bar Code, 10 Digit printing in 22 mm space. • Should have Liquid Level Sensor to check the semen level during process and automatically stop the machine when semen is finished in the reservoir. • Should have auto stop facility in case of any malfunction of the machine. • All functions monitored during process and stops automatically with warning message and Software should be with Straw color Indicator. • Should Work as a Printing System only without changing/removing/separating any hardware. • Should Work as a Filling and Sealing Machine only without changing/ removing/ separating any hardware. • Solvent Suction System optional should be available to keep the laboratory air clean and healthy. • The Filling and Sealing Machine should be compatible with existing Domino A200 printer to operate as an Integrated System.. • Easy Operation and Maintenance. • The System can communicate and regulate Ultrasonic Generator, Vacuum Pump, Jet Printer and Filling & Sealing Machine with a single command from PC. • Technical assistance through modem possible. • Compact, user friendly and ergonomic. • Automatic identification of bull by using bar code. • Computer piloted (MS windows compatible DEDICATED SOFTWARE). • The system should be compatible with Software for Management Integrated Laboratory Environment system. • Low noise, Easy to clean, All parts that require cleaning should be easily handled without tools. • Standardization ISO 9001 : 2000 • Power Supply: 230 V 50-60 Hz, • Computer <p>The Equipment must be quoted with and without Domino printer separately. Further, it must include all additional software's and one year warranty including onsite training & installation. The concern should have experience of installing successfully at least (05) five such systems in CMU Graded Semen Labs in India, for which necessary documents must be attached. The satisfactory working report from the user also to be attached. The supplier should have their services center in India to provide after sales services and all relevant details should be provided in tender.</p>	01	144000.00
4.	<p><u>Thermal Imaging Camera with accessories including software:</u></p> <p>For use in Animal research; With all necessary supplies and accessories included; Resolution 320x240pixels or better; thermal sensitivity less than 0.1°C; with advanced detector technologies like focal plane area (FPA), uncooled microbolometer etc.; options for both Automatic & manual focusing; Image Refresh rate more than 50 Hz; Touch screen with</p>	01	30000.00

	auto and manual image adjustment; with advanced feature for measurement analysis like center, hot, cold, multi-spots (5 box/circles with max./min./average representation) measurements and multicolour analysis (like rainbow, white hot, black hot, lava etc.); digital zoom 4 X; spectral range 8-10µm or better; Thermal image with enhanced detailed presentation with 'picture in picture' facility; with set-up commands for JPEG, Wi-Fi and Bluetooth; with software development kits which makes thermal camera compatible and controllable with MATLAB; with advanced software for image analysis like data of multiple points and extract temperature data in excel format; with tripod stand; battery backup approx. 4 hours on full charging; Minimum 2 years overall and 5 years on detector warranty, with service center in India; Onsite training by Certified level 1 Thermographer on operations for research purpose.		
5.	Hematology Analyzer Fully Automated Veterinary Hematology Analyzer for use in buffalo research; 5-Part differential scatter hemogram; Advanced laser technology for flow cytometry system with calculations of different angles via laser scatters; High throughput (>50 sample per hour with 25 or more parameters); should have facility for user selectable mode for different species including buffalo as a separate inbuilt mode; Data Storage(more than 50 thousand sample results with all details); runs on Cyanide free reagents; easy maintenance with facilities like auto cleaning, auto detection of reagents, qualitative analysis of results, alarm for reagent replacement etc. ; operable on minimum blood sample (<0.5ml); reputed certifications like CE and ISO; to be supplied with good make compatible PC, Printer and 1 KVA online UPS (at least 1 hour backup) ; complete with all accessories and reagent pack for 1000 samples; Service center in India; minimum 1 year warranty	01	36000.00
6.	Wide mouth LN2 container for semen storage Capacity: about 550 litres Material of construction: Stainless steel grade SS304 Empty weight without accessories: approx 300 Kg. Static evaporation loss rate per day at STP: 7 litres. Number of canisters: about 125. Compartment: 6 No revolving compartments. Storage capacity of mini (0.25 ml) straws in four levels: about 4 Lakhs. Accessories: canisters (126) with lifters, dividers (1 set), Freezing grill (1), and Acrylic top cover (1) The concern should have experience of installing successfully at least (05) five such cryocans in CMU Graded Semen Labs in India, for which necessary documents must be attached. The satisfactory working report and telephone numbers from the user also should be attached with tender details.	01	45000.00

Interested and eligible bidders may obtain further information from the office of Admn. Officer, ICAR - Central Institute for Research on Buffaloes, Sirsa Road, Hisar-125001 (Haryana) and inspect/inquire the bidding documents at the above address on any working day **between 10.00 A.M. to 5.00 P.M.**

1. The closing and opening dates of the bidding documents will be as per schedule/detail given as under:-

Sr. No.	Publish Date	Document Download	Bid Submission End Date	Technical Bid Opening Date	Financial Bid opening date	Tender Cost
1.	17.11.2017	18.11.2017	30.12.2017	02.01.2018	12.01.2018	1000.00 Each item

The interested firms will submit separate Technical and Financial bids through E-Tendering. An EMD and Tender Cost of appropriate amount in the form of a demand draft in favouring of Director, CIRB. Hisar should reach this office by 29.12.2017 **upto 2.30 P.M** through SPEED POST OR BY HAND.

- EMD/Tender Cost received late or without Tender Fee/EMD will be rejected.
- The tenderer should not have been blacklisted from any government department/undertaking. An undertaking to this effect should be enclosed with the technical bid.
- In the event of any of the above date being declared as a holiday/closed day for the purchaser, the bids will be sold/received/opened on the next working day at the scheduled time.
- The supply will be on FOR basis and rate quoted in INR .
- If required, Excise/Customs Duty exemption Certificate will be provided.
- For any query related to the equipments, please contact concerned Scientist/Indenter of this Institute before bid submission.
- Director, CIRB, Hisar reserves the right to accept/reject any or all the tenders without assigning any reason.

Administrative Officer
01662-281611 (O)

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents including all documents like annexure(s), schedule(s), etc ., which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract , without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” or “Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (ie after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

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Tel : 0120-4200462, 0120-4001002.

Mobile : 91 8826246593

E-Mail : support-eproc[at]nic[dot]in