

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

TENDER NOTICE

On behalf of Secretary, ICAR, Director CIRB, Hisar invites sealed tenders in two bid system (Technical Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturers for supply of agricultural & scientific equipments viz. 1) Microscope for Semen Analysis, 2) Milk Chiller, 3) Semi-Automatic biochemistry analyzer, 4) Hybridization Oven, 5) Trolley Loader, 6) Rain Gun (Mobile Irrigation System) - as per the specification given in the tender document and on the CIRB website Interested eligible bidders may purchase the Tender Document by Hand/Registered post or download the tender documents from CIRB website [www.cirb.res.in](http://www.cirb.res.in) which also contains all other necessary details. The date for submission of tender is 22.12.2016 upto 2.30 PM.

Asstt. Administrative Officer

**ICAR -CENTRAL INSTITUTE FOR RESEARCH ON BUFFALOES**  
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**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 equipments/implements as listed below:-

Item No.	Items with Specification	Quantity	Required Earnest money(in Rs.)
1.	<p><b><u>Microscope for Semen Analysis</u></b>  <b>Microscope body-</b> Universal infinity corrected optical system with built in fly eye lens for uniform illumination throughout the field of view including periphery,  <b>Eye piece tube-</b> Trinocular observation tube inclined at 30 Degree with paired piece (10X), antifungus type.  <b>Objectives-</b> Antifungus plan Achromat phase objectives for flat, sharp images. Plan Achromat 10X N A 0.25 with Phase &amp; 20X N.A 0.40 with phase,  <b>Coarse/Fine focussing-</b> Fine and coarse rotation focussing. Coarse motion torque adjustable. Refocusing stopper should be incorporated.  <b>Condenser-</b> Universal condenser should have bright field, dark field and Phase contrast application-Built in illumination with appropriate LED lamp, having intensity, equal and even light distribution through the field.  <b>Warm stage-</b> Super hard alunite coated surface, stay in position stage handle. Height should be adjustable. Rectangular stage with capacity to hold multiple glass slides at a time. Temp. Controlling range-Room temperature to 50 degree centigrade, Controller-2 LED digital display, auto cut option for internal temperature control.  Microscope system should be suitable for semen evaluation compatible for up-gradation/extension with 130W mercury/ metal halide/ allied Epi-fluorescence setup and high resolution CCD camera device in future.  Microscope and its objective, optical accessories should be of one reputed brand, make and model and supported by Boucher highlighting technical specifications asked.  Contact details including phone no. of users of same model in India with satisfactory performance reports from at least 3 users from university/ Govt organizations including performance of warm stage.  Certification: should have ISO, CE, UL certification and complies international quality standard.  Onsite installation and demonstration / training.  Warranty - 2years with one year AMC is required.</p>	01	21000.00
2.	<p><b><u>Milk Chiller 1000 Liter</u></b></p> <ol style="list-style-type: none"> <li>1. Rated capacity 1000 Litres</li> <li>2. Semi cylindrical &amp; horizontal type of Tank, AISI 304 SS.</li> <li>3. SS thickness inner 2 mm &amp; outer 1.5 mm</li> <li>4. Insulation of tank of high Density 40 kg/cu Mtr, polyurethane foam insulation. Thickness of insulation 50 mm. The efficient of insulation should be such that at max. 40 degree centigrade ambient temp the rate rise of the mean temp. of the milk shall not exceed by 1 degree centigrade in four hours.</li> <li>5. The refrigeration compressor shall be adequate enough to ensure that is cooled to 4 degree centigrade in prescribe time limit &amp; suitable to operate at wide range of temperature. It should be of reputed make like Denfoss / Emerson Copland etc. &amp; should be energy efficient hermetically sealed reciprocating/rotary/scroll/CFC free refrigerant.</li> <li>6. Condenser should be air cooled fine tube type having sufficient heat transfer area designed for high ambient temperature.</li> <li>7. Refrigeration control panel should be provided with motor starter, on / off push buttons, MCB. Panel should have facility to operate refrigeration unit on auto / manual &amp; as soon as the milk temperature reaches to pre set value compressor should be switched off to avoid freezing of milk.</li> <li>8. There should be provision of connection of milk chiller with milk dispensing unit.</li> <li>9. Equipment should confirm to ISO 5708-2A latest version.</li> <li>10. Unit should be complete with refrigeration system, agitator, lockable inlet &amp; outlet valve with line strainer to outlet</li> <li>11. Eco-friendly CIP system- saves water &amp; Washing Agents.</li> <li>12. Advanced &amp; user friendly Electronic Control System with Digital Indicators.</li> <li>13. Filling system with balance tank should be provided. No residual milk/ water in pipe after feeding in tank and cleaning operation</li> </ol>	01	7500.00

	<p>from ground surface.</p> <p>14. Heavy duty wheel to be provided for movement.</p> <p>15. 5 year Guarantee on stainless steel parts and 1.5 years Performance Guarantee on Entire System.</p> <p>16. Broucher highlighting technical specifications asked.</p> <p>17. Contact details including phone no. of users in India with satisfactory performance reports from Govt organizations.</p> <p>18. Onsite installation and demonstration.</p>		
3.	<p><b><u>Semi-Automatic Biochemistry Analyzer</u></b></p> <ul style="list-style-type: none"> <li>• Should have light source: Halogen lamp of more than 2000 hours life time</li> <li>• Should have high quality interference filter (mimum 7 filters)</li> <li>• Should have wavelength, 340 nm to 670 nm</li> <li>• Should have photometric range of min 0 to 3 OD</li> <li>• Should have Band width precision: <math>\pm 2\text{nm}</math></li> <li>• Stray light: <math>&lt; -0.5\%</math> (absorbance <math>&gt; -2.5</math>), Absorbance Range: <math>-0.214 - 3.000</math>, Absorbance Linearity <math>\pm 1\%</math>, Absorbance Repeatability: <math>\pm 0.001</math>, Absorbance Resolution: <math>0.0001</math></li> <li>• Precision: <math>&lt; -1.0\%</math>; Carry over: <math>&lt; -1\%</math></li> <li>• Should have inbuilt incubator with Temperature <math>37^{\circ}\text{C}</math> (min 20 positions)</li> <li>• Should have Peltier controlled temperature range <math>25^{\circ}\text{C}</math>, <math>30^{\circ}\text{C}</math>, <math>37^{\circ}\text{C}</math>, <math>\pm 0.3^{\circ}\text{C}</math></li> <li>• Should have measuring units: flow cell (min <math>15\mu\text{l}</math>), square cuvette (8-10 mm), round tube (4-6mm) with adapter</li> <li>• Sampling system: Pressure auto releasing pumps ensure the accuracy of suction volume</li> <li>• Test method: end point fixed time, two point end, kinetic, fixed, turbidometry, absorbance</li> <li>• Modes: Bichromatic, linear and non-linear calibration modes (1, 2 point linear, multipoint linear, line graph and spline)</li> <li>• Parameter setting: Patients profile and calculated item should be easily set</li> <li>• Aspiration volume: max <math>204\mu\text{l}</math> — <math>300\mu\text{l}</math></li> <li>• Reaction curve: Real time display of the reaction curve</li> <li>• Blanking: Automatic Zeroing</li> <li>• Memory: Min. 250 tests &amp; Min. 150000 sample results.</li> <li>• QC: Automatic Levy-Jennings curve</li> <li>• Reagent: Open reagent system</li> <li>• Display: <math>240 \times 128</math> dots graphic LCD with high resolution or touch screen display</li> <li>• Input: Via alphanumeric keypad or touch screen</li> <li>• Printer: inner thermal printer, able to be connected to external printer, should have minimum 3 USB for connectivity, Interface: RS232 serial port can connect to computer</li> <li>• Report content: Absorbance, concentration, activity, detailed patient information and abnormal result making and operate the instrument through PC software</li> <li>• Instrument should be CE and ISO Certified</li> <li>• Working condition: temperature: <math>10^{\circ}\text{C}</math>- <math>30^{\circ}\text{C}</math>, relative Humidity: <math>20\%</math>-<math>90\%</math></li> <li>• Voltage: AC 85-264V, 50-60 Hz, Auto adaption according to the input voltage</li> <li>• Broucher highlighting technical specifications asked</li> <li>• Contact details including phone in India with satisfactory performance reports from at least 3 users from university/ Govt organizations.</li> <li>• Onsite installation and demonstration / training.</li> <li>• Should be provided with 1 KVA online UPS of reputed make</li> <li>• Warranty : 1 year</li> </ul>	01	4500.00
4	<p><b><u>Hybridization Oven</u></b></p> <ul style="list-style-type: none"> <li>• The benchtop model should have LCD/LED Display for current temperature inside the chamber</li> <li>• The Speed should be upto 10 to 20 RPM</li> <li>• with suitable Heating Element</li> <li>• The temperature range should be from ambient to <math>+10^{\circ}\text{C}</math> to <math>&gt;75^{\circ}\text{C}</math> with temperature accuracy of <math>\pm 0.5^{\circ}\text{C}</math> and temperature stability and uniformity of <math>&lt; 1^{\circ}\text{C}</math> (Inside Oven), <math>\pm 0.1^{\circ}\text{C}</math> (In Bottles/tubes);</li> <li>• Bottles/tubes Numbers Capacity should be 10 to 15 and provided with 10-15 bottle capacity rotisserie</li> <li>• It should operate under 220-240V, 50/60 Hz</li> </ul>	01	5500.00

	<ul style="list-style-type: none"> <li>•It should be provided with contact details of users including phone nos. of users in India with satisfactory performance report from research organizations of repute.</li> <li>•It should have product brochure highlighting the technical specifications asked.</li> <li>•It should be provided with on-site installation/demonstration and product Warranty.</li> </ul>		
5	<p><b><u>Trolley Loader</u></b></p> <ol style="list-style-type: none"> <li>1) Trolley loader with buster bucket and two attachment mentioned below <ol style="list-style-type: none"> <li>i) Dozer blade</li> <li>ii) Grabbing fork</li> </ol> </li> <li>2) Able to fit on New Holland 3630 tractor.</li> <li>3) Working height 13feet.</li> <li>4) Bucket level indicator for superior loader application</li> <li>5) Loader detachable within 20 minutes by a single person at site.</li> <li>6) Enables exchanging of loader bucket attachments within seconds by operating a single lever, No spanner is required.</li> <li>7) Pin Height (Ground level to Pin) more than 12 feet.</li> <li>8) Loader over height(ground level to bucket teeth height) more than 14 feet.</li> <li>9) Bucket depth more than 2 and quarter feet.</li> <li>10) Working depth=0.5 feet</li> <li>11) Dump angle= 90 degree</li> <li>12) Roll back at ground 60 degree</li> </ol> <p>Warranty 1 year</p>	01	15000.00
6	<p><b><u>Rain Gun (Mobile Irrigation System)</u></b></p> <ul style="list-style-type: none"> <li>• Tanker Round barrel shaped water tanker Capacity 7000-8000 letrs (approx.), made of GI Sheet (minimum 3mm/10 gauge thickness) with minimum joints and cap with lid; on 8mm plate Foundation with 8"x10" with attached bolts Main chassis 200mm x 75 mm channel of suitable length to carry the water tanker, front pumping system size 2.5" x3" with 50 meter head; output valve 2" (brass)</li> <li>• With space for mounting rain gun</li> <li>• With 2.5" forigen hook, with stand, Axle 90mm square with new bearing, Kade wala Rim, 1000-20 size reputed make tyre (Apollo/JK/MRF/CEAT)</li> <li>• Rain gun Heavy duty Raingun of reputed make- water spread 100-115 feet, fitted front side of water tanker with brass gate valve and 20 feet flexible pipe;</li> <li>• Back side with fountain system with 2" valve and 2" pipe</li> <li>• Upper side carrier (heavy duty)</li> <li>• Complete system with red-oxide and enamel spray paint on exterior including channel / chasis and other structures; Rubberised paint on inner surface of tank and lower portion of chasis</li> </ul>	01	5000.00

The detailed specifications and other terms and conditions of the equipments are available at CIRB website [www.cirb.res.in](http://www.cirb.res.in)

1. 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 the bidding documents at the above address on any working **day between 10.00 A.M. to 5.00 P.M.**

2. A complete set of bidding document for said instrument may be purchased by interested eligible bidders by submitting written application to the address given above and upon payment of non refundable fee of Rs. 1000/- (Rs. One thousand only) **for each item separately** in the form of Demand Draft/Bankers Cheque drawn on a scheduled commercial bank in favour of ICAR UNIT CIRB, Hisar payable at Hisar. The bidding documents can be mailed by registered post/speed post to the bidder. Extra expenditure for mailing the bidding document will be Rs. 100/- (Rs. One hundred only) for registered post/speed post. The interested bidders should add the applicable postage cost indicated above in its non refundable fee mentioned earlier. However, if a bidder so desires, the bidding documents can also be collected by hand from purchase office of this Institute on receipt of a request letter alongwith non-refundable fee. Tender documents can also be down loaded from our website [www.cirb.res.in](http://www.cirb.res.in). The document fees of Rs. 1000/- **for each item** in shape of D.D. is to be enclosed along-with the tender form for the tender document down loaded from the website otherwise the tender will be cancelled.

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

Sr. No.	Item No.	Last date for issue of tender form	Date & time for submission of tender	Date & time for opening of tender (Technical Bid)	Date and time for opening of tender (Financial Bid)
1.	Sr.No. 01 to 06	20.12.2016 up to 5.00 PM	22.12.2016 up 2.30 PM	22.12.2016 at 3.00 PM	31.12.2016 at 3.00 PM

The interested firms will submit separate Technical and Financial bids to under take the supply of each item separately and simultaneously in different sealed covers superscribed "TECHNICAL BID" and "FINANCIAL BID". Both these sealed covers should then be placed in a third separate cover superscribed as "Tender for supply of item no. -----, name ----- (Item No. and name of equipment) at CIRB, Hisar". Tenders accompanied by an EMD of appropriate amount in the form of a demand draft favouring Director, CIRB, Hisar should reach this office by **22.12.2016 upto 2.30 P.M.** The duly filled in tender can also be dropped in the tender box kept for the purpose in the office of Admn. Officer, CIRB, Sirsa Road, Hisar by the stipulated date & time.

4. Bids received late or without Tender Fee/EMD will be rejected.
5. The tenderer should not have been blacklisted from any government department/undertaking. An undertaking to this effect should be enclosed with the technical bid.
6. Bids received by scheduled time & date as per para 3 above will be opened in the presence of the bidders/authorized representatives who choose to attend at scheduled time & date given in para 3 above.
7. 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.
8. In case of any imported items the supply will be on FOB basis and CDEC will be issued availing customs duty exemption .
9. Director, CIRB, Hisar reserves the right to accept/reject any or all the tenders without assigning any reason.

Asstt. Administrative Officer  
01662-281622 (O)