



भा0कृ0अनु0प0-सरसों अनुसंधान निदेशालय
ICAR-DIRECTORATE OF RAPESEED MUSTARD RESEARCH
सेवर, भरतपुर 321 303 (राज0)
SEWAR, BHARATPUR (RAJ.) 321 303

Tel: 05644-260379/ 260154(O)
Fax: 05644-260565/261725
E-mail: director.drmr@gmail.com
Website: <http://www.drmr.res.in>



F. No. 4-155/SP/2015/

Dated: 19-07-2016

TENDER NOTICE No.- 03

Sr.No.	Name of Items	Estimated cost ₹	Qty.	Budget	Earnest Money
1.	Culture cabinet racks	5.50 Lakhs	08	Extra Mural Project	₹=11,000
2.	Laminar Air flow Horizontal	2.00 Lakhs	01	Extra Mural Project	₹=4,000
3.	BOD Incubator	2.50 Lakhs	01	Extra Mural Project	₹=5,000
4.	Hot Air Oven (1)	1.00 Lakhs	01	Extra Mural Project	₹=2,000
5.	Thermal cycler (PCR Machine)	5.00 Lakhs	01	EMP Pre breeding	₹=10,000
6.	Centrifugal Grinding Mill	5.00 Lakhs	01	EMP Pre breeding	₹=10,000
7.	Ice Flake Machine	3.00 Lakhs	01	EMP Pre breeding	₹=6000

Note:- Tender document can be obtained from the AO of this office between **10.00 hours to 16.00 hours** on any working day effective from the date of publication of the above said OTN (NIT) in the daily News papers **upto 15-08-2016** on payment of non-refundable fee of Rs. 500/- for each item in cash or in the form of crossed Bank Draft drawn in favour of the Director, DRMR, Bharatpur (Raj.) 321 303. Tender form along with relevant detailed specifications and other terms & conditions related to the supply /payment etc. can be download from our website no. <http://www.drmr.res.in> with Tender fee amounting to Rs. 500/- each item. Tender document complete in all respects are to be submitted in **two bids** format **Techno-commercial bids and Price bid** separately under sealed cover. **The Price of Indigenous items should be quoted for on FOR DRMR, Bharatpur & for Imported / Foreign Origin equipments should be quoted FOB strictly.** The duly sealed consolidated envelope should be ensured to be put inside in the sealed Tender Box kept in Room no. 225 of the " Lab cum office building" at DRMR, Bharatpur (Raj.) or may be sent by Registered Post/Speed Post with acknowledgement due address to the Admn. Officer, DRMR, Sewar, Bharatpur (Raj.) latest by **1.00 PM on 20-08-2016 positively**. The Techno commercial Bid will be opened on **20-08-2016 at 03:00 P.M.** in presence of concerned bidders/their authorized representatives. Tender received **LATE will not be entertained**. The Director, DRMR, Bharatpur reserves the right to reject any or all the tenders at his discretion with out assigning any reasons whatsoever to any of the Tenderer concerned.

Admn. Officer

Specifications for Ice Flake Machine

1. System should be equipped to produce granular ice flakes.
2. Stainless steel body with fully insulated ice bin.
3. Equipped with air cooled system.
4. Automatic stop and start function.
5. Should have a storage capacity of at least 18 kg.
6. Should produce atleast 85 kg of ice flakes in 24 hrs.
7. Electrical consumption 550 watts.
8. Dimension of approx. 0.45×0.65×0.65 metre.
9. Should have international certification.
10. System should be quoted with suitable voltage stabilizer
11. Company should have good number of installation and user list also attached with technical bid.

Note: The Company should provide minimum of 2 years comprehensive warranty (CMC) on the whole system. Quotation from firm must clearly indicate details of after sale service including response time at DRMR, Bharatpur and list of users (in ICAR) with updated telephone numbers and addresses and provide complete literature of equipment. The system should have Q3 certificate i.e Installation Qualification, Performance Qualification and operational Qualification on the site. The vendor should have a good service and application support backup. CE/ISO 9001 manufacturer certificate is to be enclosed with the offer.

Specification for Centrifugal mill

Feed Material : hard, medium-hard, soft, brittle, elastic and fibrous

1. Suitable for grinding 2 to 10 ml of sample
2. Feed size : up to 8 mm
3. Final fineness : $<5\ \mu\text{m}$
4. Size reduction principle: Impact , friction
5. Grinding Jar Size : 25ml to 50ml

Note: The Company should provide minimum of 2 years comprehensive warranty (CMC) on the whole system. Quotation from firm must clearly indicate details of after sale service including response time at DRMR, Bharatpur and list of users (in ICAR) with updated telephone numbers and addresses and provide complete literature of equipment. The system should have Q3 certificate i.e Installation Qualification, Performance Qualification and operational Qualification on the site. The vendor should have a good service and application support backup. CE/ISO 9001 manufacturer certificate is to be enclosed with the offer.

Thermal cycler (PCR machine)**Specifications**

1. Peltier based PCR system for high throughput amplification and precise control of temperature.
2. PCR with alloy block to accommodate 96 x 0.1ml/0.2ml PCR Tube/0.2 ml PCR strips and 96 well PCR plate.
3. The system must provide a block format with temperature gradient facility. The thermal cycler must have more than 5 separate peltier blocks to provide independent temperature zones to run 5 or more different assays with varying annealing temperatures at the same time.
4. Each block to accommodate 14-16 wells and having the ability to set up PCR with a specific temperature differential of up to 4-5°C between blocks.
5. Ramp rate should be at least 5°C with average ramp rate of 3°C.
6. Temperature control range should be from 4°C to 99.9°C with temperature accuracy: $\pm 0.25^\circ\text{C}$ (40–100°C) per well and temperature uniformity: $\pm 0.3^\circ\text{C}$.
7. Instrument should be able to run on Standard mode as well as Fast mode to complete run within 40-50 min.
8. Choice of saving the methods minimum 500 programmes to the instrument memory.
9. The system should support PCR volumes ranging from 10 to 80 microlitre.
10. Instrument should display remaining runtime in larger font and the status of the run.
11. Max. no. of cycles: 90-100.
12. Lid temperatures range 40-110°C and should have better mechanism to minimize sample evaporation.
13. Auto-restart option in the event of power failure up to 90-100 minutes.
14. The heated lid should have a cushion to accommodate flat and dome capped tubes which minimize sample evaporation.
15. Should have Log book function for error messages and new calibration.
16. Mouse or stylus free navigation capability with VGA colour touch screen allowing for easy intuitive graphical user interface programming.
17. Portability: The system must have a USB port to transfer methods from one machine to another.
18. System must be provided with compatible UPS of 2.0 KVA for at least 2 hours backup.
19. The machine should be duly certified / authorized for PCR process and the vendor should produce the certificate for the same.
20. System must be provided with one No AC (2 tons) of split type.

NOTE: The Company should provide minimum of 2 years Comprehensive Warranty (CMC) on the whole system. Quotations from firms must clearly indicate details of after-sale service including response time at DRMR, Bharatpur and list of users (in ICAR) with updated telephone numbers and addresses and provide complete literature of equipment. The system should have Q3 certificate i.e. Installation Qualification, Performance Qualification and Operational Qualification on the site. The vendor should have a good service and application support backup. CE/ISO 9001 manufacturer certificate to be enclosed with the offer.

Bhatnagar *Singh*

ICAR-DIRECTORATE OF RAF

Requisition for purchase of NON CONSUMABLE ITEMS under Extra mural

Sl. No.	Name of item with full specification/ details	Brand/ make preference with full justification
1	<p>Hot Air Oven (1)</p> <ul style="list-style-type: none"> • Made of double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outer surface • Operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50-200°C • Three heating elements on three sides of the equipment for uniform temperature on all shelves. • Air circulating fan and air ventilations • Variable microprocessor based digital temperature controller with digital display and thermometer. should be provided separate. • Accuracy: $\pm 1^\circ$ Controlled by digital temp Controller cum indicator with TIMER Minimum chamber size of (L*B*H) 24*24*36 with 4 stainless steel trays with holes 	Any good

Director pl.

D. G. Singh
25/6/16 *AD*

ICAR-DIRECTORATE OF RAPESEED-MU

Requisition for purchase of NON CONSUMABLE ITEMS under Extra mural project

Sl. No.	Name of item with full specification/ details	Brand/ make preference with full justification	Present stock	A
1	<p>BOD incubator (1)</p> <ul style="list-style-type: none"> • Capacity 10-12 cubic feet and 300-350 ltr • Double walled construction outer S.S304 dull Finish Inner S.S316 Mirror polished • PUF insulation between two walled • Full acrylic door permit inspection of specimen's without disturbing the temp • Temp Controlled by PID Controller with auto tuning facility with accuracy of ± 0.5 C .temp Range 5 C to 60 C accuracy ± 0.5 C • Microprocessor controller with LED display • CFC free hermetically sealed compressor provide temp for below ambient condition • Air circulation fan for marinating temp uniformity throughout the chamber • The chamber is provided with modular removable shelves made of S. S. for complete flexibility in use. 	Any good	01	

Director/pl.

D. Singh
25/6/16 AO

Requisition for purchase of NON CONSUMABLE ITEMS unde

Sl. No.	Name of item with full specification/ details
1	<p>Laminar Air flow Horizontal (1)</p> <ul style="list-style-type: none">• Cabinet type; Stainless steel (Type 304).• Working area: 3x2x2 feet.• Sliding type opening window of minimum 5 mm thick laminated safety glass. Transparent Front Door• Microprocessor LCD Controller Digital display for air flow rate; HEPA filters with rating of 99.99% efficacy for 0.3μ particle or better.• Two 15/5 amps multiple socket with switches on the wall. Two gas outlet in the working area, one on each side wall.• Externally mounted LED illuminating lamp with separate switch to illuminate the work area.• Pre-mounted UV lamp (30 W) with separate switch. Pre-installed pressure gauge.• Exhaust ducting system with rain protection- Duct piping approximately 10 meters.• Electrical connection: 220V / 50 Hz• Onsite installation. Warranty for 2 years.• Spares: UV lamp (30 W) – 2 Nos.; HEPA filter for chamber – 1 No.; Gas burner (Bunsen burner) – 2 Nos

D. Singh
25/6/16
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Director pl.

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ICAR-DIRECTOR

Requisition for purchase of NON CONSUMABLE ITEMS under

Sl. No.	Name of item with full specification/ details
1	<p>Culture cabinet racks (8)</p> <ul style="list-style-type: none">• Fabricated out of mild steel pipes powder coated with sturdy castor wheel for smooth movement of the unit.• 4 shelves each unit and shelves are made of wooden with aluminium clad or frosted glass.• Each shelves has been provided with four LED tubes.• The unit is workable on 220V AC 50Hz single phase. Supplied complete with cord & plug.• Heavy duty electronic chokes have been mounted separately on each shelf.• Photoperiodic timer.• Temperature maintenance with thermostat and split air conditioner 4 way air swing, 2 ton.• Onsite installation. Warranty for 2 years.

Director pl.

D. Singh
25/6/16

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