



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

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F. No. 4-155/SP/2016/

Dated: 10-02-2017

TENDER NOTICE No.- 07

Sr.No.	Name of Items	Estimated cost ₹	Qty.	Budget	Earnest Money
1	Centrifugal grinding mill	5.00 Lakhs	01	Pre-Breeding	₹=10,000
2	Thermal cyler (PCR Machine)	5.00 Lakhs	01	EMP Pre breeding	₹=10,000
3	Culture Cabinet Rack	5.50 Lakhs	08	Extra Mural Project	₹=11,000
4	BOD	2.00 Lakhs	01	NASF	₹= 4,000
5	Soil thermometer	0.50 Lakhs	01	NASF	₹= 1,000
6	Heating and drying oven	2.00 Lakhs	01	NASF	₹= 4,000

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 01-03-2017** 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 06-03-2017 positively. The Techno commercial Bid will be opened on 06-03-2017 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

TENDER 2016-17

Specification for Centrifugal mill

Feed Material :

1. Application: fine grinding of mustard seeds.
2. Feed material: hard, medium-hard, soft, brittle, elastic and fibrous. Suitable for grinding mustard seeds.
3. Suitable for grinding 2 to 10 ml of sample
4. Feed size : <10 mm
5. Feed quantity: approx 20 ml
6. Final fineness : <40 μ m
7. Size reduction principle: Impact , shearing

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.

Signature
04/10/16

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.

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Bhatnagar *Singh*

ICAR-DIRECTORATE OF RAPESE

Requisition for purchase of NON CONSUMABLE ITEMS under Extra mural project

Sl. No.	Name of item with full specification/ details	B n p v jt
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 aluminum clad or frosted glass. Each shelves has been provided with four LED tubes. Heavy duty electronic chokes have been mounted separately on each shelf. <p>Height : 152 cm. (5'); Width 127 cm. (4'2") No. of Shelves :5; Illuminated:4 Shelf Dimension : (50" x 21"); Shelf to Shelf Distance : 35mm (14") Shelf Surface : 3mm thick hylem sheet. Light Source : In each shelf 4 nos.LED tube lights of 40W each With Electronic Ballast. Individual control switch for each tube light.</p> <p>Structure : Made of 25 x 25mm M.S Square Tube duly enamel painted ; 4 nos. Castor Wheels.</p> <ul style="list-style-type: none"> With photoperiodic Timer With each rack. The unit is workable on 220V AC 50Hz single phase.Temperature maintenance with thermostat and split air conditioner , 1.5 ton with stabilizer (1 nos) and 1 window A.C 1.5 tonne with stabilizer. <p>PHOTOPERIODIC SIMULATOR Analogue type switches on/off lights at the time set by the user. Photoperiodic repeat cycle : 24 hrs.Min on/off period : 30 minutes. Powered Output : Directly drives up to 100 tubes lights of 40W each.Accuracy : ± 1 sec./day.</p> <p>GLASS BEAD STERILIZER Glass Bead Sterilizers destruct all micro organism within seconds. The unit is ready within 30 minutes after switching on and ensure total sterilization. These are incorporated with an thermostat, which maintains the set temperature with an accuracy of + 2 of the preset temperature range.Crucible (Brass) size : 2" dia x 5½" Depth.Preset Temp. Range : 245°C – 265°C.Initial Stabilization Time : 30 Minutes. Wattage : 250W Single Phase.</p> <ul style="list-style-type: none"> Onsite installation. Warranty for 2 years. 	

Director pl.

[Signature]
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Pur sec
07/02

Specification of BOD Incubator (with humidity)

- Temperature range : PT – 100 temperature sensor
10-60°C
- Relative humidity : From 20% to 98%
- No. of the chamber : one (heating & cooling)
- Capacity : 10 cuft. (approximately)
- Chamber size : Length 540mm, Height 895mm, Width 488mm
- Inside Chamber : Stainless steel Grade 304 of 27 SWG
~~Rack Supporting of 24 SWG~~
- Outside chamber : ~~Mild steel of 20 SWG~~
- Display : ~~2x16 characters~~ LCD display with backlit
- No of trays : 04 adjustable SS (Wire mesh) trays
- Compressor : Hermetically sealed type of standard make ,kirloskar, with CFC free
Refrigerant Dual Turbofan Circulation and Fluorescent Lamp, Low Water level Alarm System
- Electronics : Microcontroller based , digital display of temperature
- Operating voltage : 220V, 50Hz AC $\pm 10\%$
- Door Panel : For fitting of all Electronic Circuits and control panel so that maintenance is easy and control panel is at convenient

❖ Company must provide a minimum of three years comprehensive warranty on whole system

Soil Thermometer

Specification:

Measuring range:- 0 to 50 ⁰ C
Measuring depth: 15,30 and 45 cm (5 units for each depth)
Accuracy: $\pm 0.1^{\circ}\text{C}$
Sensor: Electronic based Digital Display System
Corrosive- resistant stainless steel or brass stem
Digital display system

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DIRECTORATE OF RAPESEED MUSTARD RESEARCH , SEWAR , BHARATPUR
REQUISITION FOR PURCHASE

NAME OF PROJECT/ SCHEME/ PROPERTY: Equipment

NAME OF DIVISION/ SECTION: NASF Project

*Creating a fully characterized resource
Pipeline for mustard improvement
programme in India.*

Sr. No.	Name of the item With full Specification/ Technical details	Brand /Make Preference with justification	Present stock	Additional quantity required	Consumable Non-consumable	Consumption During last one year	Purpose For which required	Budget provision Amount spent And balance available	Address (s) of probable supplier	Approx. Cost (Rs.)	Remarks any
1	2	3	4	5	6	7	8	9	10	11	12
	Heating and drying oven	Standard Make		one	nil	Non-con	Glassware and other sample Drying purpose		NASF	2.0 Lac	

Specification: Wave length – ISO certified product, minimum size 605x605x605 mm, double walled inner chamber of stainless steel and outer wall of heavy gauge, 2-3 shelves of stainless steel, Temperature range upto 250°C, variation + 0.5 °C, microprocessor based temperature controller with overheating safety device with LCD display.

Recommendations of the Head Incharge of the section

Singh
PI of Project
16.01.17

Signature

Singh
16.01.2017

Name : Har Vir Singh
Section: Co-PI

Sanction of the Competent Authority

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16.01.17

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18/01