BIDHAN CHANDRA KRISHI VISWAVIDYALAYA
Regional Research Sub-Station, Chakdaha
Vill. Uttar Panchpota, P.O. : Chakdaha, Pin-741 222
Dist.: Nadia, West Bengal
☎(03473)207365(0),9051339686(M)
E-mail : sukanta.agron@rediffmail.lcom

Dr. Sukanta Pal
Professor in Agronomy & Principal Investigator
On Farm trial: Penoxsulam (MUP)…….
Directed seeded paddy

Ref. No. RRSS/Ch-19/F-18/698 **Dated 03.01.2020**

NOTICE

Sealed quotations are invited (with rates) from the bonafied companies/ manufacturers /Indian Agencies/ suppliers for the '**Laboratory Instruments (Thermal Cycler-PCR, Centrifuge 5424R)'** for the project interest.

All quotations should reach to the Principal investigator, of the project "On Farm Trial: Penoxsulam (MUP) Butachlor on transplanted / direct seeded Paddy", Code 2902. at RRSS, Chakdaha Nadia, or Dept. of Agronomy, BCKV, Mohanpur within **10 days** of this notification.

Scanned copies (DD) of Rs. 5000/ as EMD will be enclosed. Selected supplier/bidder will have to produce in original DD at the time of supply order.
University shall right to reserve to reject or accept any or all quotations without assigning any reasons.

Prof. Sukanta Pal
Principal Investigator
"On Farm Trial: Penoxsulam (MUP) Butachlor on transplanted / direct seeded Paddy".

List of Instruments to be purchased under Adhoc project at RRSS, BCKV, Chakdaha

Sl. No.	Name of the equipments/ implements	Specification	Quantity
1.	Thermal Cycler	• The system should be a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time. • Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of up to 5 degree centigrade between blocks. • Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures. • On board Tm calculator facility to approximate the optimal annealing temperature. • The system should provide for **Standard** and **fast** run modes in a single instrument with the ability to use 0.2ml / 0.1ml PCR tubes or micro-well plates. • The system should support PCR volumes ranging from 10 to 80 µl • Temperature Range – 0-100^{0}C • Max Block Rate – 3.9 ℃/sec • Max Sample Rate – 3.35 ℃/sec • Mouse or stylus free navigation capability with VGA Color touch screen allowing for easy intuitive graphical user interface programming. • Choice of saving the methods up to 800 to the instrument or unlimited to a USB memory stick. • Programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR optimization. • Scalability: capability to interlink up to 11 PCR systems via single Ethernet hub. • Security: The system should have the ability to store methods on a memory stick. • Portability: The system should have a USB port to transfer methods from one machine to another. • System should allow easy product updates via USB port. • The machine should be duly certified / authorized for PCR process	One

Sl. No	Name of equipments/ implements	Specification	Quantity
2.	Centrifuge 5424R	**Proprietary features:** FastTemp function to reach of set temperature at shortest possible time OptiBowl® design for noise less work place and quite operation even without a rotor lid Built-in condensation drain to eliminate water accumulation in the chamber ECO power shut-off function to reduce energy consumption and extends compressor life Dynamic Compressor Control (DCC) technology to maintain the temperature homogeneity and extend the compressor life. **Other features:** • RPM: 100 to 15000 in increment of 50 rpm • Max RCF: 21130 x g • Temperature range must be -10^0C to 40^0C • Third party certified aerosol tight rotor for 24 x 1.5ml tubes is in cluded in this package. • Rotor bowl, rotor and rotor lid are made of Aluminum • Microprocessor controlled system • Dynamic compressor control allows more efficient usage of the compressor for optimal temperature accuracy inside the rotor • ECO shut off function: Compressor shuts off automatically if the machine is not used for 8 hrs. It reduces energy consumption (42 % overnight) and extend compressor life (can be deactivated in menu) • The built-in condensation drain within the rotor chamber eliminates water accumulation and prevents corrosion • Fast Temp pre-cooling function is present for quick pre-cooling of the centrifuge within 8 min from 21^0C to 4^0C. • Maintain 4^0C at maximum speed. • Soft-touch one-finger lid closure for ergonomic operation • Noise level must be ≤49dB • Small foot print (WxDxH): 29x48x26cm • Timer : 30s to 9:59h with continuous mode • Soft brake function for delicate sample • Short spin is programmable to desired speed • Full-digit display of time and speed • System meets the IVD conformity • Power consumption: Max 350W	One