



Indian Cardamom Research Institute

Spices Board
Ministry of Commerce & Industry Govt. of India
Myladumpara
Kailasanadu (P.O)
Idukki District 685553
Kerala

Tele:04868- 237206,237207, Fax:04868-237285

No.ICRI/AG/AS/5/07

Dated:13th September 2007

Sub:-Purchase of sophisticated equipments for Laboratory use – reg.

Sealed competitive quotations are invited from the suppliers of reputed brands of the following **Sophisticated Lab Equipments** required in Indian Cardamom Research Institute, Myladumpara, Idukki – 685553.

The rate for the equipment with all necessary accessories and spares as detailed in the specification list inclusive of insurance, freight and any other charges should also be quoted.

Sl. No	ITEM	Nos.	Specifications
1	pH meter	1+1	a) Range 1 to14 pH; Resolution 0.01/0.001pH;1mV in mV mode; calibration points up to 5; Temperature Range 0-100°C; Memory 100 Data Sets; Millivolt Range 0 to \pm 1999mV. b) Range 0 to 14 pH; Resolution 0.01pH; 1mV in mV mode; Temperature Range 0-100°C; Millivolt Range 0 to \pm 1999mV; LED display; Repeatability \pm 0.01pH
2.	Portable pH meter	2	Portable pH meter with pH electrode, Range 1 to14 pH.
3	ELECTRONIC ANALYTICAL BALANCE WITH 4-DIGIT PRECISION	1	Readability of 0.0001 g (0.01 mg). Maximum capacity at least 200g *
4	Rotary Shaker	1	Variable speed, platform capacity 30 flasks (can fit 250&500ml)
5	Conductivity Meter	1	Cell constant 0.1 to5, Range 0.1 μ S to 100 m S in 6 ranges; Minimum resolution 0.001 μ S, Accuracy \pm 1% of F.S. in all ranges \pm 1 digit. LED display, Auto temperature compensation 0-100°C,TDS factor 0.00 to 9.99
6	Fume exhaust hood	1	Working table with acid proof tiles ,water tap and work space 155x75x240 cm .Vertical fibre glass door .

7	Muffle furnace	1	High temperature muffle furnace fabricated with grooved refractory open element type having maximum temp 1200°C working temp 1100°C .Internal diameter 15x15x22cm .
8	Micro block digestion system(for plant samples)	2	Micro processor based automatic 20 place Micro block digestion system with digestion tubes.
9	Hot air oven with digital temperature controller with indicator ,air circulation fan	1	Internal diameter 60x60x60cm with 3 shelves and stainless steel inner chamber.
10	Flame photometer	1	Simultaneous measurement of Na,K,Li, &Ca ,range 0-40ppm.Sensitivity 0.1ppm,reproducibility \pm 1ppm for Na and \pm 0.1ppm for K,Nebuluser -all metallic axial flow type.
11	Tissue analysis kit	1	
12	Water analysis kit	1	
13	Stereo microscope	1	Specification as preferred by QEL, Cochin

Cover containing the quotation should be super scribed "Quotation for sophisticated Lab Equipments for Mobile lab " and should be sent to The Director (Res.) Spices Board, Indian Cardamom Research Institute, Kailasanadu (P.O) Myladumpara - 685553 on or before 3rd October 2007. Late quotations will not be accepted.

Quotation should give detailed specifications of equipments on offer, brand name, terms & conditions of supply, guarantee period, after sales service details, delivery period, the customer list including name of contact persons with telephone no./E-Mail ID etc. A statement of compliance with specifications should also accompany the quotation. Onsite training of personnel is to be conducted immediately after the installation of the equipment.

Spares and consumables required for the trouble free operations of the equipments for a period of two years after warranty are also needed to be quoted separately. Clarification if any, can be had from the Scientist (Agronomy & Soil Science). The Director (Res.), Indian Cardamom Research Institute, Myladumpara, reserves the right to accept the quotation in full or in part or to reject the same without assigning any reason.

Sd/-
Dy. Director (Res.)