

UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala Legislative Assembly.

Accredited by NAAC with A grade)

DEPARTMENT OF BOTANY



KARIAVATTOM
THIRUVANANTHAPURAM 695 581
KERALA, INDIA
Phone +91-471-2308301
Tele-fax: +91-471-230 8301
Web site: www.keralauniversity.ac.in
e mail: unikerbot@rediffmail.com

KUB-KSCSTE Pjt/Garcinia 022-18

April 19, 2018

QUOTATION NOTICE

Quotations are inviting for the following items in the project on “Collection, characterization and propagation of *Garcinia gummi-gutta* (L.) Robs.’in the Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram

Name of Equipment	Units	Specifications
Gel electrophoresis unit	1	Horizontal Electrophoresis I The horizontal electrophoresis unit must include three trays to accommodate in the same tank, sizes of 15x7cm, 15x10cm & 15X15cm geltrays. Gel Tray should be UV transparent. Lid of the unit must have fan on it for condensation free runs and to avoid heat. Should be able to run up to 210 samples. Bromophenol Blue migration should be approx 4-7cm/h at 90-150V. Run time should be 60-90 min at 90-150V. Should include 1 mm thick 2 combs of 20 sample wells as standard. Buffer volume should not be more than 500ml. Should have option multichannel compatible combs for speed loading. 20 sample comb should have 21µl sample capacity per well. Should have cassette type electrodes for easy changing of electrodes and must not be fixed to the tank. Should have pure platinum wire and gold plated corrosion resistant electrodes. Should include casting dams for tape free and leak proof casting of gels. Should include loading guides for easy identification of wells. Should have option for color coded

combs for 0.75mm, 1mm, 1.5mm and 2mm thick combs. There should be wide variety of combs. Unit dimensions should not be more than 18X28X10cm

Horizontal Electrophoresis II

The horizontal electrophoresis unit must include 26x32cm gel tray.

Gel Trays should be UV transparent.

Should be able to run maximum 672 samples.

Should include 1 mm thick 6 combs of 28 sample wells.

Buffer volume should not be more than 2000ml.

Should have option for multichannel compatible combs for speedloading.

28 sample combs should have 34µl sample capacity in each well.

Should have cassette type electrodes.

Should include buffer recirculation ports.

Should have pure platinum wire and gold plated corrosion resistant electrodes.

Should include Flexi caster for leak free casting of gels even with agarose at 80°C.

Should include loading guides.

Should have color coded combs option and should have options for 0.75mm, 1mm, 1.5mm and 2mm combs.

Gel should complete run within 90-120 minutes at 100-150V.

Bromophenol blue migration should be \square 4-6cm/hr at 100-150V.

Warranty: two years

Digital Power pack:

Specifications: Output range : 10–500 V, fully adjustable in 1 V steps, 1-500 mA fully adjustable in 1 mA steps

Type of output : Constant voltage or constant, current Output terminals\ : 4 pair recessed banana jacks in parallel

Timer : 1 min–999 min , fully adjustable Start /Stop Function should be available

Display in 3-digit LED

Operating conditions ranging 0–40°C, 0–90% humidity in the absence of condensation

Safety features must include No-load detection, sudden load change detection, overload/short-circuit detection,

Input protection through Fuse on both hot and neutral

Input power (actual) : 220VAC/50hz

Two year warranty

Terms and Conditions

- The price quoted should be that applicable for the educational institutions.
- The items should have an onsite warranty for at least 2 years.
- The firm should be capable to extend immediate service, which in no way should not exceed 24 hours.
- Prices are to be quoted FOR DESTINATION (Department of Botany, University of Kerala, Kariavattom. The prices quoted should clearly indicate the 4 following charges; Price of the equipment; Price of optional accessories if any; GST or Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
- Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.
- Performance Certificate of the specified model should be attached along with the quotations.

The **technical and financial** bid may be submitted separately to; Dr. E.A. Siril, Principal Investigator, KSCSTE Pjt on Garcinia, Department of Botany, University of Kerala, E mail ID: easiril@yahoo.com or before **5.5.2018 4.00 PM**.

Sd/..

Dr. E.A. Siril
Principal Investigator
Assistant Professor

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Name of Equipment	Units	Specifications
Gel electrophoresis unit	1	Vertical Electrophoresis Unit <ul style="list-style-type: none">• The vertical electrophoresis unit should produce long, thin polyacrylamide gel format for sequencing gel• The system should facilitate separation of long and short DNA or RNA fragments that differ by only a single nucleotide.• To be applicable to microsatellite analysis, DNA finger printing & foot printing, primer extension analysis etc...• The system must include IPC assembly, universal base, caster assembly, combs and spacers, temperature indicator• Gel casting - horizontal mode• The gel should maintain uniform temperature and eliminates smile patterns, should be easy-to-operate. Should facilitate quick assembly and gel casting without using tape and grease• Base transparent and universal for different IPC dimensions 21 x 40 cm, 21 x 50 cm, 38 x 30 cm, 38 x 50 cm• Should have IEC 1010 safety certification

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Dr. E.A. Siril
Principal Investigator
Assistant Professor