



**KERALA UNIVERSITY OF FISHERIES & OCEAN STUDIES**  
**SCHOOL OF OCEAN SCIENCE AND TECHNOLOGY**  
PANANGAD P.O., KOCHI 682 506, KERALA, INDIA

☎ 0484-2701085/ 2703782, 2700598; FAX: 91-484-2700337; e-mail: [utypanangad@kufos.ac.in](mailto:utypanangad@kufos.ac.in) web mail: [www.kufos.ac.in](http://www.kufos.ac.in)

**SOST-2 /10/Biotechnology/2018**

**Panangad,Dated: 06 .08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Quantity
1	Refrigerator	Volume 300 L; Double door, Frost free with inbuilt stabilizer; Digital inverter compressor	1
2	Liquid Nitrogen Container	Cryocan with 20 litres capacity; for storing cell lines in ampoules and cryotubes; temperature level at -196C; Material- Aluminium container	1
3	Liquid Nitrogen Container	Cryocan with 10 litres capacity; for storing cell lines in ampoules and cryovials;temperature level at -196C; Material- Aluminium container	1
4	Alcohol distillation unit	Capacity 1000ml; Single distillation unit; Borosil glassware with tubes	1
5	Micro-pipette	Variable volume pipette 0.5 – 2.5ul capacity; adjustable knob for volume locking; with stainless steel tip ejector and autoclavable	2
6	Microwave oven	20 L capacity; with touch key pad; power level 6; LED Display; Child protection; Anti bacterial protection; scratch resistant	1

The envelope containing the Quotation should bear the superscription "**Quotation for supply of Equipment for Biotechnology**" and should be sent to the **Director, School of Ocean Science and Technology, KUFOS, Panangad, Kochi-682506**. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

The rate quoted should be firm and inclusive of all taxes and supply and installation at School of Ocean Science & Technology, Kerala University of Fisheries & Ocean Studies, Panangad. Period of firmness during which the rates would be firm is 60 days from the date of supply orders.

Late quotations will not be accepted under any circumstances. The quotations will be opened in the presence of bidders or their authorized representative who may be present at the venue during the specified time of opening.

Last date & time for the receipt of Quotations	:	30/08/2018 11AM
Date and time of opening the Quotations	:	30/08/2018 11.30AM

All the terms and conditions applicable to University/Government quotation are admissible to this quotation also. Right to accept the quotation in full or in part or to reject without assigning any reason whatsoever is reserved with the undersigned.

Sd/-  
**DIRECTOR**

To: Firms/Computer Programmer-for uploading in website  
Copy to: HOD(Biotechnology)



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**SOST-2 /10/Earth Science/2018**

**Panangad,Dated: 06.08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Quantity
1.	Hot air oven,- Bottom heated thermostatic	Inner Chamber (W x D x H) - 455 x 455 x 455 mm- 2 shelves; Temperature Range - 5°C above ambient to 250°C maximum; Controls - PID Controller; Temp Display - LED Display; Heating Element - Nichrome wire / Kanthal A1; Interior Chamber - 304 stainless steel Shelves – Removable Power Supply – 220V; Safety device - Over temperature protection Electric leakage breaker Temperature safety as per DIN 12880 Class 3.1	1
2.	Test Sieves	Mesh size – 10,20,40, 60, 120,170,270 (ASTM-Standards) along with bottom pan and top lid. For sieve analysis. 8” dia.	1 each
3.	The given list of minerals and rock in thin sections	List enclosed	1 each

The envelope containing the Quotation should bear the superscription **“Quotation for supply of Equipment for Earth Science”** and should be sent to the **Director,School of Ocean Science and Technology,KUFOS,Panangad,Kochi-682506**.Intending firms/individuals can submit their quotations on their own papers with detailed specification.Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

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**SOST-2 /10/FST/2018**

**Panangad, Dated: 06 .08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Quantity
1.	Small lab grain pulveriser mill	powerful and quick grinding of large quantities suitable for dry and wet grinding of grains such as wheat, rice, ball mill, easy tilt to empty the grinding jar solid steel frame	1
2.	Electric Centrifuge with Timer Adjustable	4000rpm <b>fixed angle rotor</b> capacity 8 x 15 ml	1
3.	Sausage filler and stuffer	Electric , 8 L cap	1
4.	Steam Distillation Assembly	<u>Capacity: 1 To 20 Ltrs , borosilicate</u>	1
5.	Essential Oil Determination apparatus (Clevenger Apparatus) for Oil lighter than water	Capacity 1000 ml	1
6.	Ca Filter for Flame Photometer		1
7.	Autoclave	20 Lr capacity	1

The envelope containing the Quotation should bear the superscription **“Quotation for supply of Equipment for Food Science and Technology”** and should be sent to the **Director, School of Ocean Science and Technology, KUFOS, Panangad, Kochi-682506**. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

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**SOST-2 /10/Marine Biology/2018**

**Panangad,Dated: 06.08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

<b><u>No.</u></b>	<b><u>Item</u></b>	<b><u>Specification</u></b>	<b><u>Quantity</u></b>
1.	Refrigerator	Volume 185L; Single door, Two Shelves, Stabilizer free operation	1
2.	Hot air oven	Temperature range 30 to 120°C	1
3.	File Cabinet	Metal-glass double door steel cabinet Color: Any color, H1800xW850xD390mm or nearest size Shelves: 5 or 6	1

The envelope containing the Quotation should bear the superscription **“Quotation for supply of Equipment for Marine Biology”** and should be sent to the ***Director,School of Ocean Science and Technology,KUFOS,Panangad,Kochi-682 506***. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

The rate quoted should be firm and inclusive of all taxes and supply and installation at School of Ocean Science & Technology, Kerala University of Fisheries & Ocean Studies, Panangad. Period of firmness during which the rates would be firm is 60 days from the date of supply orders.

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**SOST-2 /10/Marine Chemistry/2018**

**Panangad, Dated: 06.08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Qty
1.	Muffle furnace	Maximum Temperatures 1000°C/1200° C & Working temperature 930°C/1130°C. Temp. Controlled by Digital Temperature Controller cum Indicator	1
2.	Refrigerated Water Cooling Circulating System	Working temperature from -2 °C to +37 °C Digital Display	1
3.	Double distillation Unit-All Quartz	All Glass Double Distillation Unit, with Borosilicate Boiler, Borosilicate Condenser & Quartz Heater, Horizontal Type, Capacity 4 litres/hour	1

The envelope containing the Quotation should bear the superscription **“Quotation for Supply of Equipment for Marine Chemistry”** and should be sent to the **Director, School of Ocean Science and Technology, KUFOS, Panangad, Kochi-682 506**. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

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**SOST-2 /10/Marine MicroBiology /2018**

**Panangad,Dated:06 .08.2018**

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Quantity
1.	Midi submarine electrophoresis unit	Casting tray: 15x10 cm; Includes buffer chamber, safety lid with cables, 20 well comb	1
2.	Mini dual vertical electrophoresis unit	Two slabs gel 10x8 cm; Includes buffer chamber, safety lid with cables, 10 glass plates, 2 ten well 1mm thick combs, 4 spacers of 1mm thickness & dual gel caster	1
3.	Electrophoresis power supply unit	Max output: 300V, 400mAmp & 80W.	1
4.	Rocker 400 Vacuum pump	220V, Max vacuum: -670mm Hg; Max flow rate: 34L/min;Motor rotation: 1450 rpm; 1/6 HP;Net wt. 5.2 kg	1
5.	Autoclave (Stainless steel)	Size: 12" x 20" Stainless steel body, 2KW electrical filament coil, 230V	1
6.	Hot plate with magnetic stirrer	230V; 1phase; 24V; 1 Amp; 50 Hz	2

The envelope containing the Quotation should bear the superscription "**Quotation for supply of Equipment for Marine MicroBiology**" and should be sent to the **Director, School of Ocean Science and Technology, KUFOS, Panangad, Kochi-682 506**. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

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SOST/2 /10/General/2018

Panangad,Dated:06.08.2018

**Quotation Notice**

Sealed competitive quotations are invited for the supply of equipment to the Laboratories of the School of Ocean Science and Technology in new Academic Block of KUFOS, as per the specifications given below:

No.	Item	Specifications	Quantity
1.	Glass worktop for wooden Island Bench	8mm toughened glass 10 feet x 4.5 feet	2
2.	WiFi Router for I and II floor Classes in academic block		6

The envelope containing the Quotation should bear the superscription **“Quotation for supply of Equipment for School of Ocean Science and Technology (General)”** and should be sent to the **Director, School of Ocean Science and Technology, KUFOS, Panangad, Kochi-682 506**. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website [www.kufos.ac.in](http://www.kufos.ac.in) for further details.

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Copy to:

## Department of Earthsciences

### List of Minerals and Rocks in Thin sections

#### Minerals

Sl No	Mineral	Sl. No	Mineral
1	Actinolite	14	Glauconite
2	Agate	15	Gypsum
3	Apatite	16	Kyanite
4	Aragonite	17	Magnesite
5	Barite	18	Microcline
6	Beryl	19	Oligoclase
7	Biotite	20	Orthoclase
8	Calcite	21	Pyrite
9	Chlorite	22	Quartz
10	Diopside	23	Sphalerite
11	Enstatite	24	Spinel
12	Fayalite	25	Wollastonite
13	Fluorite	26	Zircon

#### List of Rock thin sections

##### Igneous rocks

Sl No	Rock Name	Sl No	Rock Name
1	Amygdaloidal Basalt	7	Granite
2	Anorthosite	8	Pegmatite
3	Charnockite Intermediate	9	Peridotite
4	Dolerite	10	Rhyolite
5	Dunite	11	Syenite
6	Gabbro	12	Vesicular Basalt

##### Metamorphic Rocks

Sl No	Rock Name	Sl No	Rock Name
1	Amphibolite	7	Khondolite
2	Biotite Schist	8	Phyllite
3	Chlorite Schist	9	Pyroxinite
4	Eclogite	10	Quartzite
5	Granite Gneiss	11	Slate
6	Hypersthene Granulite	12	Marble Diopside

##### Sedimentary Rocks

Sl No	Rock Name	Sl No	Rock Name
1	Arkose	5	Sandstone Calcareous
2	Conglomerate	6	Sandstone Coarse Grained
3	Limestone	7	Shale
4	Oolitic Limestone	8	Graywacks