



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

☎ 0484-701085/ 2703782, 2700598; FAX: 91-484-2700337; e-mail: director.sost.kufos@gmail.com web mail www.kufos.ac.in

SOST/ 2/250/FST/2017

10.10.2017

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:

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 -682 506*. Intending firms/individuals can submit their quotations on their own papers with detailed specification. Visit our website www.kufos.ac.in for further details.

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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 :	26.10.2017, 11 a.m.
Date and time of opening the Quotations:	26.10..2017, 11.30 a.m.

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Sd/-
DIRECTOR

Equipment- Specifications Food Science & Technology

Sl No	Name of Equipment to be procured	Technical specifications	Quanty
1	Weighing balance	Capacity up to 220g , minimum display, 0.1mg Main body dimension 213mm (W)x356mm (D)x338mm (H) Pan size ϕ 91mm Weight: 6.2kg Power requirement 12W, 1 A	1 No.
2	Water bath	Supplied with removable concentric rings :Stainless steel inner chamber Specifications Construction:Double Walled Capacity : 15 Liters Chamber Dimensions 355 x 405 x 100 mm No. of holes 12 Holes Dia. 75 mm Temperature range 5°C above ambient to 100°C Thermstatic temerature controller Temperature Sensitivity $\pm 0.5^{\circ}\text{C}$ or better Temperature Sensor PT-100 Temperature Accuracy $+5^{\circ}\text{C}$ Material of Construction - Inner chamber and lid - Stainless Steel (SS-304 grade) - Outer chamber - Mild Steel duly powder coated Power 220 V / 50 Hz	1 No.
3	pH meter	Range: 0-14 pH Power requirement: 100-240 V / 50-60 Hz / 9V DC Resolution: 0.01 pH / 1 mV / 0.1 °C Dimensions (mm) : 211 (L)x305 (W)x 104 (H) Weight; 2.9kg	1 No.
4	Micropipette	100- 1000 μL (5 nos.) 5000 μL (2 nos)	1 No.
5	Magnetic stirrer with hot plate	Max stirring capacity 2 Ltr capacity Stirring PaddleQ-19 (9 x 35 mm) Dimensions (WxDxH) (mm) 200 x 225 x 185 mm Power 220W	1 No.
6	Magnetic stirrer	Max stirring caacity 2 Ltr capacity Stirring PaddleQ-19 (9 x 35 mm) Dimensions (WxDxH) (mm) 200 x 225 x 185 mm Power 220W	1 No.



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SOST/ 2/250/MCH/2017

10.10.2017

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Sd/-
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Name of the Department: Marine Chemistry

Sl. No.	Item	Specifications	Quantity
1.	Refractometer	Hand Held dual scale salinity refractometer with Automatic Temperature Compensation. (specific gravity and ppt scales) + Accessories	5 Nos.
2.	Refrigerator	Double door 240-260 Liters	1 No.
3.	Rotary Shaker	Flask Capacity: 500ml Platform Type Flask Holding Capacity Platform Size (mm) 1000 x 1000 mm (minimum) With Stainless Steel Clamp Optional 1. Digital RPM Indicator 2. Digital Timer	1 No.
4.	Colorimeter	Range : 400 ~ 700 nm Display : Dual Digital Display Filters : Built in 9 Digital filters > 30,000 hours Life Display Model : Absorbance & Wavelength Detector : Silicon Photodiode Zero Adjustment : Auto Zero by Microprocessor Accuracy : + 0.01 O.D. Stability : + 0.02 O.D. Per Hour Light Source : Highly Accurate Laser Source Amplifier : Micro Controller Based	3 Nos.
5.	Viscometer	11-mL sample volume. Precision $\pm 0.2\%$	1 No.
6.	Muffle furnace	Maximum Temperatures 1000°C/1200° C & working temperature 930°C/1130°C. Temp. Controlled by Digital Temperature Controller cum Indicator	1No.
7.	Polarimeter	Analyser brass scale graduated from 0-360 deg	1



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SOST/ 2/250/Bio. Chem/2017

10.10.2017

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Sd/-
DIRECTOR

Name of the Department: Biochemistry

SI No.	ITEM	Specification	Quantity
1	HOT PLATE	11" Dia round hot plate with energy regulator Body constructed out of Mild Steel Sheet duly powder coated, supplied with cord and plug to work on 220/230VAC [Temperature range 2500C-3000C] 1250 watts	1No.
2	TLC CHAMBER	TLC Chamber (ordinary glass) size: 25 x 25 x 12cm	1No.
3	HAEMOGLOBIN METER	Standard	1No.
4	SOXHLET EXTRACTION UNIT	<p><u>Automatic PC Compatible Solvent Extraction System :</u></p> <ul style="list-style-type: none"> • Fully Automatic Programmable Eight Place Auto sequencing PC Compatible Solvent Extraction System with data logger, TFT Graphic Touch Screen Display. • Casted Aluminium Alloy Heaters for uniform heating, • Independent loading of sample with individual mechanical controls, • Unique wireless mouse to operate touch screen without PC at a distance of 2 mtrs • Direct USB Port for PC/Laptop Connectivity, Integrated auto sequencing time/temperature domain of 70 programs or more with at least 12 sequencing steps in each programme, • Data logging with real time clock, Memory stick for data storage with port in mother board, • Auto Phase change over of 5 stage extraction includes boiling, Condensation, rinsing, solvent recovery and Predrying steps., • Programmable user ID with Programmable scan rate, Data table export to excel, • PC software performs Live graphical representation of time / temperature gradient, • Live process view display of various stages with facility to have print options, • Software enables multiple unit monitoring with multi user login feature, Inbuilt Airpump with SS Manifold for pre 	1No.

		<p>drying and solvent cloud evaporation, Automatic collection of recovered Solvent with optical sensor to prevent overflowing of solvent.</p> <ul style="list-style-type: none"> • Versatile to handle different sizes of thimble, Extraction beakers & Nitro Cellulose thimble Size : (25 mm dia X 80mm L) and (33 mm dia x 80mm), • Remote control module for wireless data monitoring, control and transfer to PC at a distance of 30 mtrs from equipment, • Electrical Requirement:230V/50Hz. AC Mains. <p>Company should have good performance track record of at least 10 years with references of users of similar equipment. The Supplier should be ISO certified, CE Certified to fulfil good laboratory practice norms of International Safety requirements to ensure quality standard with certified calibration. The instrument shall strictly confirm to the specifications with relevant brochure. The company should be reputed supplier / manufacturer and should not be blacklisted or should not have any adverse remarks in the past. Spares should be made available for minimum period of 10 years after the warranty period by the supplier for uninterrupted working of the instrument. The company should extend immediate service support.</p>	
5	CYCLOMIXER	<p>This vortex mixer is used for thorough mixing of precipitates in test tubes, small bottles or flasks. Touch working & speed regulator switch also provided to control the speed. Suitable to work on 220 VAC. 1200 RPM</p>	1No.
6	ELECTRONIC BALANCE	<p>CAPACITY : 220 gm READABILITY : 0.001 gm REPEATABILITY (sd) : 0.001 gm LINEARITY (+/-) : 0.002 gm PAN SIZE (mm/inch) : 128 x 128 mm Response Time : 2-3 sec DISPLAY : back light LCD CALIBRATION : Automatic External TARE RANGE : full OPERATING TEMP. : 15 to 40 HOUSING DIM.(WxDxH) : 342 x 212 x 271</p>	1No.



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SOST/ 2/250/Mar. Biology/2017

10.10.2017

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DIRECTOR

Name of the Department: Marine Biology

Sl No.	ITEM	Specification	Quantity
1	Electronic balance	Capacity 220-250g, accuracy 0.0001g with high quality display with backlight, low battery, inbuilt re-chargeable battery for continuous use, overloading protection design, SS weighing pan.	1
2	Refrigerator	Volume: 250-360 mL; Double door, frost-free	1
3	Plastic water sampler	PVC sampling tube, capacity 1.7 litre, including messenger, rubber code made of natural latex, spare messenger for releasing the closing mechanism, with 6mm bore. Weight: 400g	1
4	Deep freezer	Vertical, -10 to -40° C, exterior dimension: 700 x 656 x 1405; Interior dimension: 506 x 451 x 1007; Volume: 200-225 L	1
5	Plankton net	Diameter of aperture: 40 cm/0.125 m ² Length of net bag: 100 cm Unscrewable net bucket with side windows and stop-cock	1
6	Standard sieve set	1. 0.5mm standard mesh; and 2 inches height; Stainless steel/brass. Government certified. 2. 0.063 inches diameter and 2 inches height;Stainless steel/brass. Government certified. 3. 1 mm standard mesh; and 2 inches height; Stainless steel/brass. Government certified	1
7	Micropipette	Variable volume single channel micropipette Volume: 0.5 – 10 µL, 10-100 µL & 100 – 1000 µL	1 each
8	Primer software	Plymouth marine laboratory, 10 license in a University	1



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SOST/ 2/250/Biotech/2017

10.10.2017

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DIRECTOR

Name of the Department: Biotechnology & Microbiology

Sl No.	ITEM	Specification	Quantity
2	Protein gel & Western blot unit	Gel capacity 1-2/1-4 of 10 x 75 cm, 10 well; 0.75 mm or 1 mm thickness, combs, glass plates casting stands and frames, electrode assembly, power cables, etc. Electroblott cassette, sponge, suitable for minitank	1
3	Microfuge	Rotor capacity:0.2/0.5/1.5/2 ml x 8, DC motor, RPM upto 10,000, continuous operation, noise level \geq 45 dB	1
4	Microwave oven	N/A	1
6	Microscope	Microscope student type , with oil immersion lens	5
7	Hair drier	Speed with high and low option	1
8	Refrigerator	300 L	2
9	Water bath	N/A	2



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SOST 2/250/Earth Sci./2017

10.10.2017

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Name of the School/Department/Centre: Earth Sciences

Sl No.	ITEM	Specification	Quantity
1	Proton precision magnetometer	Sensitivity: One Gamma Recycling: Manual Sensor: Solenoidal/Noise free Polarizing current: 1.0 Amp max. Standby current: 3.0mA Display: Liquid crystal Range of field: 30 -50 K gamma	1
3	GPS	Digital display with 176 x 220 pixels resolution. Water proof. USB interface. High-sensitivity receiver. Built-in memory. Base map (facility to add map), Tack log should be saved	3
6	GEOSYN streak plate	GEOSYN streak plate unglazed porcelain: 5 x 5 cm	10
7	GEOSYN hammer	GEOSYN trimming hammer all steel with rubber grip handle, one chisel end. Capacity: 1000g	10
8	Hardness box – 9 mineral	Moh's scale of hardness comprising of nine minerals arranged in a case according to the hardness scale and with of each of : Diamond pencil, Pocket lens, Pocket knife, Pocket magnet, Pocket lens 10X, streak plate, m.s. plate, glass plate and brass plate and acid drop bottle (empty) in a nylon pouch	10 sets