

ITDC- TENDER/DKTE-R&D/2006-07/03

D-3

**ICHALKARANJI TEXTILE DEVELOPMENT
CLUSTER (ITDC) LTD., ICHALKARANJI
5/617, SWIMMING POOL PREMISES,
NEAR VED BHAVAN, ICHALKARANJI-416 115,
DIST.-KOLHAPUR**

**TENDER DOCUMENT FOR PROCUREMENT
OF GOODS & EQUIPMENTS
FOR
R & D CENTRE
AT**

**D.K.T.E.SOCIETY'S,
TEXTILE & ENGINEERING INSTITUTE,
ICHALKARANJI**

TEXTILE CHEMISTRY

**INVITATION FOR QUOTATIONS FOR SUPPLY OF
GOODS & EQUIPMENTS**

To

Dear Sirs,

Sub: INVITATION FOR QUOTATIONS FOR SUPPLY OF

1. You are invited to submit your most competitive quotation for the following goods:-
Schedule D3: Eco Testing Lab.

Sr. No.	Brief Description of Item	Specification	QTY.	Period of Delivery	Place of Delivery	Installa. If any.
1	Eco Testing					
	a. PH meter	Tempearture:- 10.0....+110.0C pH: 0.00.....14.00pH RedoxORP:-1999 ...+2000mV -Accuracy: At nominal temperature unit +/- 1 digit -Temperature compensation: With temperature probes, automatic temperature compensationATC0 is effected in measuring modes "pH"or "Rel mV". -Without measuring probe, manual temperature input is necessary. -Input	01	8 weeks	DKTE Ichalkaranji	Yes

		<p>Resistance:>10¹² Ohm Typ -Input Current :<1 pA -Nomimal Temperature:25C Operating Temp: 0 to +50°C. -Memory: -20 to +70°C. -Power Supply: 4 x 1.5V Battery, type AA operating time up to > 15,000h Automatic Off Function: If no key is pressed or if there is no data transfer, the unit switches off after run-down of the switch-off delay. -pH Calibration: 1-Point, 2-Point, or 3-Point calibration Standard Buffer, DIN buffer or user Selectable buffer. -WaterProof -Battery operation period upto 15,000 hours</p>				
	b.Conductivity meter	<p>Conductivity, Total Dissolved Solids TDS, salinity and Temperature measurement - Dirt-insensitive up-to-date 4-electrode technology offering highest precision - Automatic Temperature Compensation ATC - Min/ Max value storage - Internal memory for 20 data sets - Linear and non-linear temperature compensation - Calibration against standard solutions - Low battery and battery change indicator - Battery operation period upto 3000 hours</p>	01	8 weeks	DKTE Ichalkaranji	Yes

		<p>- Shock-absorbing rubber protective armouring</p> <p>- Waterproof</p> <p>Technical Specs.:</p> <p>Indicating Ranges -</p> <p>Conductivity</p> <p>0.0..200.0uS/cm</p> <p>0..2000uS/cm</p> <p>0.00..20.00mS/cm</p> <p>0.0..200.0mS/cm</p> <p>Resistance: 0.005-100.0 kOhm</p> <p>Dry filtrate residue TDS: 0..1999 mg/l</p> <p>Salinity: 0.0..70.0</p> <p>Temperature: 5.0-+ 100.0 Deg.C</p> <p>Calibration:</p> <p>1-point calibration with selectable conductivity solutions in the range from 1000 to 2000uS</p> <p>Nominal Temperature: 25Deg.C</p> <p>Memory: for 20 results</p> <p>Measuring Cell:</p> <p>4-electrode conductivity measuring cell with integrated temperature sensor NTC 10 kOhm.</p> <p>Electrode material: special graphite</p> <p>Shaft material: epoxy</p> <p>Temperature sensor: stainless steel</p> <p>Dimensions: diameter 12mm, 120mm long</p>				
	c. Carrying case	<p>Oxygen partial pressure, Oxygen concentration, Oxygen saturation, Temp. measurement</p> <p>* Automatic absolute air pressure measurement</p> <p>* Auto Hold function</p> <p>* Easy calibration against oxygen in air</p> <p>* Salinity correction</p> <p>* Self-polarising galvanic oxygen probe, allows instant</p>	01	8 weeks	DKTE Ichalkaranji	Yes

		<p>measurement after the system is switched on</p> <ul style="list-style-type: none"> * Low battery and battery change indicator * Sensor evaluation in the display * Accessories for depth measurement * Battery operation period up to 12000 hours * Shock-absorbing rubber protective armouring * Waterproof <p>Technical Specification :</p> <ul style="list-style-type: none"> - O2 Partial Pressure: 0.0.....570.0hPa 0.0.....1200 hPa 0.0.....427.5mmHg 0.....900 mmHg - O2 Concentration: 0.00.....25.00mg/L 0.00.....70.0mg/L - O2 saturation : 0.0..... 250.0% 0.....600 % Accuracy: +/-1.5%+/- 0.2mg/L Temperature: - 5.0...+50.0C Accuracy: +/-0.1C Abs. air pressure: 500....1100hPa Accuracy: +/-0.5% full scale Nominal temperature : 25°C Operating Temperature: 0 to +50°C Storage temperature : - 20 to +70°C Power supply : 4 x 1.5 V battery, Type AA Operating time up to 12.000h Auto - Off Func: 0-120 mins Dimensions : 175 x 140 X 45mm LX W X H Weight : approx. 580g 				
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	d.BOD measurement system	BOD measuring unit with 6 Sensor Batteries Sample Flasks Potassium Hydroxide Nitrification Inhibitors Overflow measuring flask Inductive Stirring Platform with automatic stirrer rod centering. FEATURES : Direct display of BOD values in mg/l User selectable measuring period and user friendly handling Result memory for upto 28 days Measuring range form 0-40 mg/l to 0-4000 mg/l BOD Accurate measurements Autostart function following temperature equalisation of the samples Environment friendly	01	8 weeks	DKTE Ichalkaranji	Yes
	e. Test for checking the system	Test sets	01	8 weeks	DKTE Ichalkaranji	Yes
	f. BOD thermostaticallooy controlled incubator	Volume: 180 Ltrs. Internal Dimentions : 513 D X 431 W X 702 H mm External Dimentions : 600 D X 600 W X 855 H mm 230 V / 50 Hz, regulation range 2Deg. - 40Deg. C, dual LCD-display, fully insulated cabinet with universal temperature regulation device, with glass door in aluminium frame, incl.3 metal grids and 1 bottom grid	01	8 weeks	DKTE Ichalkaranji	Yes
	g.PCCHEC KIT COD VARIO PACKAGE	The PC-CHEKIT COD vario package allows accurate and	01	8 weeks	DKTE Ichalkaranji	Yes

		<p>simple determination of COD.</p> <p>It includes the PC CHECKIT COD vario photometer, two sets of vial tests for the range 0-150 mg/l and 0-1500 mg/l, the COD reactor and a stand for vials.</p>				
	h.PCCHEC KIT TURBIDITY METER	<p>PC Checkit Turbidity Meter with 4 turbidity standards 1, 10, 100 and 1000 NTU, battery and test vials.</p> <p>Measurement of coloured liquids</p> <p>Measuring cycle : Approx 9 seconds.</p> <p>Display : LCD</p> <p>Optics : Temperature-compensated LED and photosensor amplifier in water proof sample Chamber, infrared light</p> <p>Keypad : 3 key polycarbonate membrane, splash proof</p> <p>Power supply : 9 V power pak</p> <p>Auto-OFF : automatic switch-off</p> <p>Range : 0.2 - 2000 UTU</p> <p>Temperature conditions : 0 - 40 deg C</p> <p>Dimensions mm : 190 x 110 x 5 LxDxH</p> <p>Weight : approx. 0.4 kg base unit</p> <p>Measurement with infrared light at an angle of 90 deg.</p>	01	8 weeks	DKTE Ichalkaranji	Yes
	i. LOVIBOND TEST KIT	<p>Lovibond Comparator 2000+ with Daylight 2000 Lightning unit, Gardner Discs 4/30AS, 4/30 BS, W680/OG/10 MM path length fused cell.</p>	01	8 weeks	DKTE Ichalkaranji	Yes
	j. Refrigerated, Chilling Heat	<p>The Cyberlab Circulating Bath are</p>	01	8 weeks	DKTE Ichalkaranji	Yes

	<p>Circulating Water Bath</p>	<p>ideal for general laboratory applications such as chemical reactions, life science and medical research. Features: * Microprocessor-controlled * Easy to operate * User-friendly keypad * Warning & safety functions * Continuous operation * External circulation * Large LED display Technical Specifications : Working Temperature Range : -15 Deg.C to 100 Deg.C Temperature Accuracy : +/- 0.3 Deg. C Temperature Stability : +/-0.02 Deg.C Heater Capacity : 1000W Cooling Capacity : 126W Medium : Ethanol Refrigerant : R134a Flow Rate/ pressure : 6 L/ min @ 0 m bar Bath Opening : 147mm x 147mm Filling Volume: 7 litres Net Weight : 36kgs Mains Power connection : 220V/ 50Hz</p>				
	<p>k.Memmert Universal Oven</p>	<p>Specification : Instrument I made of Stainless steel interior mat finish 1.4031 with all around deep drawn ribs to integrate the large area heating. Oven having perforated S.S shelves , up to size 300 1no shelf and sizes 400-800 2shelves. Oven with glass-stainless steel operating</p>	<p>01</p>	<p>8 weeks</p>	<p>DKTE Ichalkaranji</p>	<p>Yes</p>

		<p>panel, multi functional broadband display, fully insulated inside thermally separated S.S door with double locking system and 4 point adjustment.</p> <p>Tech Specification :</p> <p>Capacity : 32.lit</p> <p>Electrical supply : 230V</p> <p>Electrical load</p> <p>During heating : 1100</p> <p>Temperature Details</p> <p>Temp Range : +250°C*4</p> <p>Display resolution : 0.5° C*</p> <p>Temp Deviation : at 150°C accuracy : +/- 0.25°C</p> <p>Temp uniformity : +/- 2.2°C</p> <p>Packing Details</p> <p>Net Weight : 28kg approx</p> <p>Gross Weight in triwall carton : 34kg approx</p> <p>Packed dimension : 67x70x54 cmwxhxd</p> <p>Extra Features.</p> <ul style="list-style-type: none"> * Fuzzy-supported PID microprocessor control and auto-diagnostic system. * Air slides for adjustable air flap * Control of fan speed in 10%steps * PT100 temp sensor * 4 fixed ramp timer with SP.WT & Loop 1min to999h per segment. * Oven timer having real-time/weekly programmer with group function. * 3 point calibration facility on the controller with out extra PC * Instruments with work 				
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		calibration certificate * "Celsuis2005" software at extra cost for control and documentation tested under windows 98,NT4,200,ME and XP. Software includes RS 232./optional RS 485 Interface				
	I. Hot Air Oven	Rang- 0 to 250°C Display- Digital (auto control) Material – stainless steel Size – 24”x24”x24”	01	8 weeks	DKTE Ichalkaranji	Yes

2. Procurement of goods & equipments are sanctioned on Grant in Aids basis by Ministry of Commerce & Industry, Government of India under Industrial Infrastructure Upgradation Scheme (IIUS) and intends to apply part of the proceeds of this grant to eligible payments under the contract for which this invitation for quotations is issued.

3. **Bid Price**

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) Please quote the prices including all duties, taxes, insurance, freight, forwarding, packing, transport, erection, commissioning, etc.
- c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

4 Each bidder shall submit only one quotation.

5 **Validity of Quotation**

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

6 **Evaluation of Quotations**

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) are properly signed ; and
- (b) Confirm to specifications and the specific terms and conditions as follows:

The Quotations would be evaluated for all the items together in each schedule.

7 **Award of contract**

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price with due justification to the proper specification.

- 7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 8 Payment shall be made immediately after delivery of and successful installation and commissioning of the goods.
- 9 Normal commercial warranty/ guarantee shall be applicable to the supplied goods.
10. You are requested to provide your offer latest by 5.30 PM. hours on **18/08/2007**
11. The forms are available in ITDC Office, 5/617, Swimming Pool Premises, Near Ved Bhavan, Ichalkaranji.
12. We look forward to receiving your quotations and thank you for your interest in this project.

MANAGING DIRECTOR,
FOR Ichalkaranji Textile Development Cluster Ltd.,
Ichalkaranji – 416115. Dist. Kolhapur.

FORMAT OF QUOTATION *

Sr. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs.	Total Amount	
						In Figures	In Words

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Gross Total Cost : Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.(amount in figures) (Rs. amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

- *Applicable while the bids are being invited for more than one item and would be evaluated for all the items together. Modify where evaluation would be made for each item separately.*