

Invitation of offers for supply of Autosamplers for High Performance Liquid Chromatography System (HPLC) and Atomic Absorbtion Spectrophotometer (AAS).

Background: -

Kerala Industrial Infrastructure Development Corporation (KINFRA) a statutory body established by Govt. of Kerala has been the leader in providing industrial infrastructure for the State of Kerala. It has established a chain of Industrial Parks across the length and breadth of the State, which include industry specific theme parks/special economic zones. For the Food Processing Industry, two food parks namely, KINFRA Food Processing Park (KIFPRO) at Kakkancherry and KINFRA Small Industries Park (KSIP) at Mazhuvanoor have already been established. A third Food Park at Adoor is under implementation.

As part of its role to promote industries, a host of common facility centers have been provided by KINFRA in its Parks. Quality Control Laboratory is one such common facility center provided by KINFRA in its Parks at KIFPRO, Kakkencherry and KSIP, Mazhuvannoor.

Up gradation of Equipments: -

KINFRA has already set up a Quality Control Laboratory in KINFRA Park at Mazhuvanoor near Ernakulam. The laboratory is equipped with various equipments including High Performance Liquid Chromatograph System (HPLC) and Atomic Absorbtion Spectrophotometer (AAS), both of Shimadzu make. For these two equipments, namely HPLC and AAS, KINFRA proposes to upgrade the equipments by the providing them with autosamplers (of some Shimadzu make).

KINFRA invites separate sealed offers for each item from authorized dealers of Shimadzu equipments for supply, installation, testing, commissioning and demonstration / training of these autosamplers. (For technical specification refer Annexure I &II).

Description	Qty	EMD (Rs)	Minimum Average Annual Turnover (Rs)
Autosampler for HPLC	1 No	12,500.00	75.00 Lakhs
Autosampler for AAS	1 No	12,500.00	75.00 Lakhs

Eligibility Conditions:-

- (a) Bidders should have a minimum average annual turnover of Rs. 75.00 lakhs during the last 3 financial years.
- (b) Bidders should have supplied similar type of equipments / instruments to reputed laboratories in the country.

Procedure:-

Bidders may download the bid documents from the website. The downloaded documents shall be used for submitting the offer by filling up the required details and signing (along with seal) on all pages of the bid document together with documents as specified.

Separate bid documents shall be submitted in separate sealed covers for each item.

TERMS & CONDITIONS

The quotation/offer should give the following information, and the relevant technical literature / documents should accompany it.

- (1) In case of quotes in foreign currency, FOB value should be quoted including packing, forwarding and inland freight charges. CIF (Kochi / Trivandrum) value by airfreight, with freight on IATA basis either on volume or weight basis must also be quoted.

The offer, if in Indian Rupees, must be for free delivery at the above Park.

- (2) Percentage & amount of Indian agency commission, payable in Indian currency, after the receipt of consignment in good condition at our stores & after satisfactory installation and commissioning etc must be clearly specified. Foreign Exchange Management Act does not permit the inclusion of Indian Agency commission, discount or like rebates allowed by Foreign Suppliers in FOB value, payable to their Indian Agents. Such commission, discount etc. if any, must be indicated separately in the offer.
- (3) Bid documents through fax/e-mail will not be considered.
- (4) All foreign bank charges shall be borne by the supplier/bidder.
- (5) Specific mention should be made for the exact duration required for delivery after receipt of the order. The delivery period will have to be strictly adhered to, in case an order is placed against the offer.
- (6) Detailed terms including period of warranty.
- (7) The service manual will be provided along with the supply of material.
- (8) **Installation, commissioning and satisfactory performance / testing of the whole equipment/apparatus and training/ demonstration should be free of cost.**
- (9) Part shipment will not be allowed.

- (10) The offer should be valid for 90 days from date of opening of the bids.
- (11) **Quotations received late / after due date is liable to be rejected summarily.**
- (12) The installation, commissioning and testing of the equipments should be completed within two weeks from the date of arrival of the items at Mazhuvanoor.
- (13) The bidder should indicate the approximate dimensions & weight of the consignment such as:
- (a) Dimensions
 - (b) Tare Weight
 - (c) Net Weight
- (14) **FOB rates (in case of quotes in foreign currency) must be given for any of the following Gateway International Airports. Specify the gateway International Airport**

COUNTRY	GATEWAY INTERNATIONAL AIRPORT
Germany	Frankfurt
Japan	Tokyo
Hongkong	Hongkong
UK	London
USA	New York
Switzerland	Zurich/Geneva
Singapore	Singapore (Changi Airport)
Australia	Sydney
Austria	Vienna
Belgium	Brussels
Denmark	Copenhagen
Netherlands	Amsterdam
Canada	Toronto
Italy	Rome/Milan
France	Paris
Korea	Seoul

In case of quotes in foreign currency, KINFRA prefers to release the payment on BILL basis (excluding Indian Agency Commission) after the receipt of the consignment in good condition. Alternatively, depending upon the value and foreign exchange regulations the payment can also be considered through Sight Draft/Letter of Credit through State Bank of India, Trivandrum Main Branch, Kerala, India for the order value excluding the Indian Agency Commission.

- (16) In case of quotes in Indian currency, payment will be effected through DD / Cheques only after receipt of equipments / apparatus in good condition and successful commissioning. Other terms and conditions stated above shall be applicable to local suppliers.
- (17) An Earnest Money Deposit (EMD) of Rs 12,500/-, as specified in the bid documents, must be sent along with the offer, otherwise the offer will not be considered at all. The EMD should be in the form of demand draft from a scheduled bank in favor of Managing Director, KINFRA and payable at Thiruvanthapuram. The Earnest Money Deposit of the unsuccessful bidders will be returned immediately after the placement of the order on the successful bidder. The Earnest Money Deposit of the successful bidder can be forfeited for the non-execution of the Order within the delivery period. The EMD of the successful bidder will be released only after satisfactory installation and commissioning, of the equipments/instruments without any interest.
- (18) Non-execution of the Order will debar the bidder from any future purchase/ inquiry from KINFRA
- (19) The offer should be inclusive of installation and commissioning charges at the site.
- (20) The offer must be inclusive of packing and forwarding charges.

- (21) The supplier should take insurance policy till the machinery/equipments are installed and commissioned.
- (22) The warranty shall be for a minimum period of one year from the date of installation and commissioning of the equipment/ apparatus.
- (23) The bids sent by post should be enclosed in a sealed cover. Bids delivered personally should be handed over to the office of KINFRA. The bids received after the time and date fixed for submission of the bids will not be accepted.
- (24) Rates and other specifications given in the bid documents must be clearly written, or typed, without any correction, cutting or overwriting.
- (25) Unsigned bid document is liable to be summarily rejected.
- (26) Any other conditions written or printed in the bid document or otherwise sent along with the bid document shall not be binding on us.
- (27) The names of reputed Indian organizations (research/ food quality laboratory/ institute of the State/ Central Government Departments/ Undertakings, large private concerns) where bidder has supplied similar types equipment in the past 3 years, should be furnished.
- (28) The bidder should have a minimum average annual turnover of Rs 75 lakhs during the last 3 financial years. Documentary proof of turnover (certified by Chartered Accountant in India or approved competent authority in case of foreign supplier to be provided)
- (29) The bids are liable to be rejected if any of the above conditions are not complied with.
- (30) The bidder should sign, along with his seal, in all the pages of the bid document.

- (31) Rates quoted for all items should be firm and no escalation of rates will be allowed under any circumstances.
- (32) Deduction towards Works Contract Tax or any other tax if applicable will be made while making payment.
- (33) KINFRA reserves the right to accept any tender in full or in part or to reject the lowest or any or all tenders without assigning any reason.
- (34) The Bid Documents are not transferable.
- (35) All disputes shall be subject to jurisdiction of courts in Trivandrum only.
- (36) Separate bid document should be submitted in separate envelopes, in case the bidder is quoting for more than one item of equipments.

SPECIAL TERMS AND CONDITIONS

- (1) The bidders will have to submit their offers in two separate sealed envelopes. The first envelope (technical bid) should contain only the technical specifications of the equipment in duplicate quoted by the bidder, along with the Earnest Money Deposit by Demand Draft. The offer will not be considered at all without the Earnest Money Deposit. No commercial information, which may have financial implications, should be mentioned in the first envelope. The second envelope should contain only the financial bid in duplicate along with all commercial terms & conditions, which may or may not have financial implications. Both sealed envelopes should be kept in another envelope, without any reference on it, and should be addressed to the Managing Director, Kinfra House, Sasthamangalam, Trivandrum - 695010. Both inner sealed envelopes should be properly superscribed “**Technical Bid or Financial Bid**” which ever is applicable along with the wording “**Offer for the Supply of Autosamplers for HPLC or AAS equipments for QC lab at Mazhuvannur, (whichever applicable) Due Date:**” and should be addressed to Kerala Industrial Infrastructure Development Corporation (KINFRA), Kinfra House, 31/2312, Sasthamangalam, Trivandrum – 695 010 so as to reach the Managing Director before 3.00 p.m. on 21/11/2008.
- (2) Technical Bids will be opened at 4.00 p.m. on 21/11/2008. Financial Bids will be opened only of those bidders whose Technical Bids are found acceptable. The date and time of opening for opening of Financial Bids will be communicated to the successful bidders after evaluation of the Technical Bids.
- (3) TAXES/LEVIES: All taxes, duties, levies of any kind payable up to the stage of putting the material in F.O.B. position shall be borne by the foreign

supplier/ bidder in case of quotes in foreign currency. In case of quotes in Indian Rupees the rate quoted should be inclusive of all taxes applicable till the delivery of equipments at the site.

- (4) **IN CASE OF PAYMENT BY SIGHT DRAFT / LETTER OF CREDIT:** 90% payment shall be made by Sight Draft/an Irrevocable Letter of Credit established in favor of the supplier through State Bank of India, Trivandrum Main Branch for the order value, excluding the Agency Commission due to the Indian Agents, against presentation of original shipping documents in case of quotes in foreign currency. Balance 10% will be released after completion of installation and on receipt of Bank Guarantee of 10% of total FOB value either from Principal or from their Indian Agent towards performance security to be valid for one year from the date of installation. Bank Guarantee only from Indian nationalized banks will be accepted and in case Bank Guarantee is issued by a foreign Bank the same should be counter signed by the correspondent Indian nationalized bank. However, L/C will be opened for the full amount. No other payment term will be acceptable to us.
- (5) **MANUALS:** Instruction manuals for operation and maintenance, wherever applicable, should be supplied along with the equipment free of cost.
- (6) **SERVICE: Bidder shall be responsible for after-sales service during the warranty period of the equipments/instruments. The after sale service to be rendered by the bidder, during warranty and thereafter should be made clear in the tender. The after Sales service is an essential requirement for the supply of equipments.**
- (7) The make/brand and name and address of the manufacturer, country of origin, country of shipment and currency in which rates are quoted are to be mentioned.
- (8) The copies of the relevant technical literature should accompany the tender. (Clearly showing the specifications.)

- (9) The payment of the local currency portion shall be made in equivalent Indian rupees, within 30 days after the receipt of the equipment in good condition and satisfactory installation and testing and also after the compliance of all Terms & Conditions of the order related to it by the bidder.
- (10) Compliance with national / international standards, if any, shall be specified.
- (11) The equipment should be guaranteed for trouble free performance for a minimum period of one year after installation. The defects, if any, during the guarantee period are to be rectified free of charge by arranging free replacement, wherever necessary.
- (12) The supply of spare parts is to be guaranteed at least for a period of 10 years after supply of the equipment. Spares required for three years shall be indicated with prices as an optional item. Such prices should not be included in the quote for the equipment.
- (13) Discount offered, if any, should be mentioned clearly.
- (14) As far as possible offer should be submitted against **Air Freight** only, in case of foreign suppliers

Managing Director
KINFRA

**Autosampler for High Performance Liquid
Chromatography system
Specification - Ref: Annexure I**

Location	Quantity	Rate	Amount
Mazhuvannur	I No.		

Total Amount =====

Signature of the Bidder

Autosampler for Atomic Absorbtion Spectrophotometer

Specification - Ref: Annexure II

Location	Quantity	Rate	Amount
Mazhuvannur	I No.		

Total Amount =====

Signature of the Bidder

Specification - Autosampler for Shimadzu High Performance Liquid Chromatography System

1. Auto-Sample Injector

Sample injection volume should be variable between 0.1 ul to 2000 ul

Injection system should be variable injection volume type with zero sample loss during injection

Very fast injection time of 10sec/sample

Number of samples to be processed automatically, random access upto 175 positions for 1ml vial volume, 105 for 1.5ml, 50 for 4ml, 192 for 2X96 wells microtitre plates, 768 for 2X384 wells microtitre plates, 192 for 2X96 wells deep-well plates

It should perform customised continuous analyses according to the conditions specified for each sample, including pretreatment, injection and analysis conditions. Priority samples may be inserted in the queue during automated run.

Flow line rinse capability both before and after sampling should be possible

Needle aspiration speed should be variable from 0.1 to 15ul/sec

Rinse aspiration rate should be variable from 1 to 35ul/sec

Carry over must be within 0.005 %

Injection volume accuracy within 1%

The injection precision should be less than 0.2% of RSD value

Maintenance kit should be quoted

It should have a leak sensor, automatic rack and vial recognition as safety feature

It should have functions for maintenance and validation which are accessible by a dedicated operation button

It should be capable of coupling to an automatic rack changer with cooler in the future for high throughput analysis

Supply of at least 200 sample vials of 1.5ml capacity, complete with caps and septa should be included.

2. Degassing Unit

Membrane degassing unit for five flow lines

Maximum operating flow rate upto 20ml/min per flow line

An internal capacity of 170 ul per flow line that allows a significant decrease in time required for replacing mobile phases and stabilisation

It must have a leak sensor as a safety feature

Error status shall be transferred to the operating software

It should include a drain-pan

Self-cleaning capability that extends vacuum pump life by drawing in air when the pump is running

The liquid contact surfaces of the degasser should employ special synthetic polymers designed for all solvents

3. System Controller

It should function as a communication bus module with data buffering capability

It should acquire upto 24 hours for one analysis, at 500ms sampling rate

It must be controllable from a web-based interface via a network. It allows the system to be controlled, monitored and maintained via Internet Explorer Web browser

It must be compatible with wireless networking

It must come with Expert function in that if pressure falls below specified value, the expert function will automatically purge the mobile phase

It should store up to 20 analysis files with a total upto 400 steps of time programs

4) Software

Operation of the system should be very easy and intuitive via a state-of-the-art 32 bit Win XP based software

It should be capable of control of up to 4 HPLC systems and data acquisition of upto 8 channels (2 detectors for each system). The monitoring of all the four HPLC systems simultaneously should be possible

It should cover full one-point digital instrument control, qualitative and quantitative processing, report creation and self-diagnosis

Sample schedule wizard function should be standard

There should be an on-line help function context sensitive

The reporting format should be flexible and easy to use in any desired format

The data can be converted to other formats. Spread Sheet software and word-processing software can be readily employed to provide data in tables or graphs through industry standard protocols

The software should allow automatic execution of system checks, auto-purge and baseline checks

Software must have its own log files for complete audit trails

An audio-visual multi-media CD-ROM for Maintenance and Troubleshooting must be provided

System suitability, System security as well as System check functions must be provided which comply with Good Laboratory Practice (GLP) and Regulatory Conformity

ANNEXURE II

Specification - Auto Sampler for Shimadzu AAS - 6300

ASC-6100F Auto Sampler for operation of Flame and Furnace

Type	: Two syringe type Auto sampler.
Control	: RS-232C Communication with AA main unit.
Function	: Zero Point detection, Auto diagnosis, Automatic rinse, random access to all vial positions.
Vial positions	: Sample vials : 60 position(Randomly accessible).
Reagent Vials (Standard/Modifiers)	: 8 Position (randomly accessible)
Sample volume	: Sample Vial 16 ml (test tube for flame analysis) 2 ml sample Cup for Furnace analysis.
Reagent vials	: 40 ml for Flame or 20 ml for Furnace.
Nozzle Rinse	: Solvent aspiration rinse for flame analysis Solvent rinse discharge method for furnace analysis / flame microsampling
Rinse water bottle	: 2 L capacity
Sampling Functions	: Automatic dilution function, Automatic reagent addition function.
Syringe	: 250 Micro Liter
Injection Volume	: 2- 100 Micro Litre
Repeatability	: 1 % RSD (20ul)
Carry Over	: Rinse port : <0.00001
Mixing port	: <0.00001
Mixing port rinse	: Solvent rinse discharge method Solvent rinse plus rinse with next sample method
Mixing	: up to 600 Micro liters in total Volume in the mixing port.
Maximum	
Solvent Vials	: 1 Liter polypropylene vessel
Automatic Function	: Dilution & Matrix Modification.

Should include the ASK-6100 Furnace Kit & ASK – 6300, Install Kit

Nozzle Assy. , HVG – 1

Necessary for connecting HVG – 1 to Auto Sampler