

No.Qlty/3(4)/2006.

Dated 15th November 2006

QUOTATION NOTICE.

Sub:- Purchase of Gas Purification System for GC – reg.

Sealed quotations are invited superscribed “Quotation for Gas Purification System for GC ” conforming to the detailed specifications and directions given in annexure -1.

Offer addressed to the Director (Res), Indian Cardamom Research Institute, Spices Board, Sugandha Bhavan, Palarivattom, Cochin – 25, should reach this office before 3 p.m. on 14.12.2006. Quotations should provide the detailed specifications of the item on offer with the name of the brand, terms and conditions of supply, service, delivery period etc.

Quotations will be opened in the presence of representatives of the bidders, if any present, at 3 pm on 14.12.2006.

The Spices Board reserves the right to accept or reject the quotation without assigning any reason.

Spices Board

(Ministry of Commerce and Industry, Govt. of India)
Sugandha Bhavan, N.H.By-pass, P.B.No.2277
Palarivattom P.O, COCHIN – 682025
KERALA, INDIA.

Annexure – 1

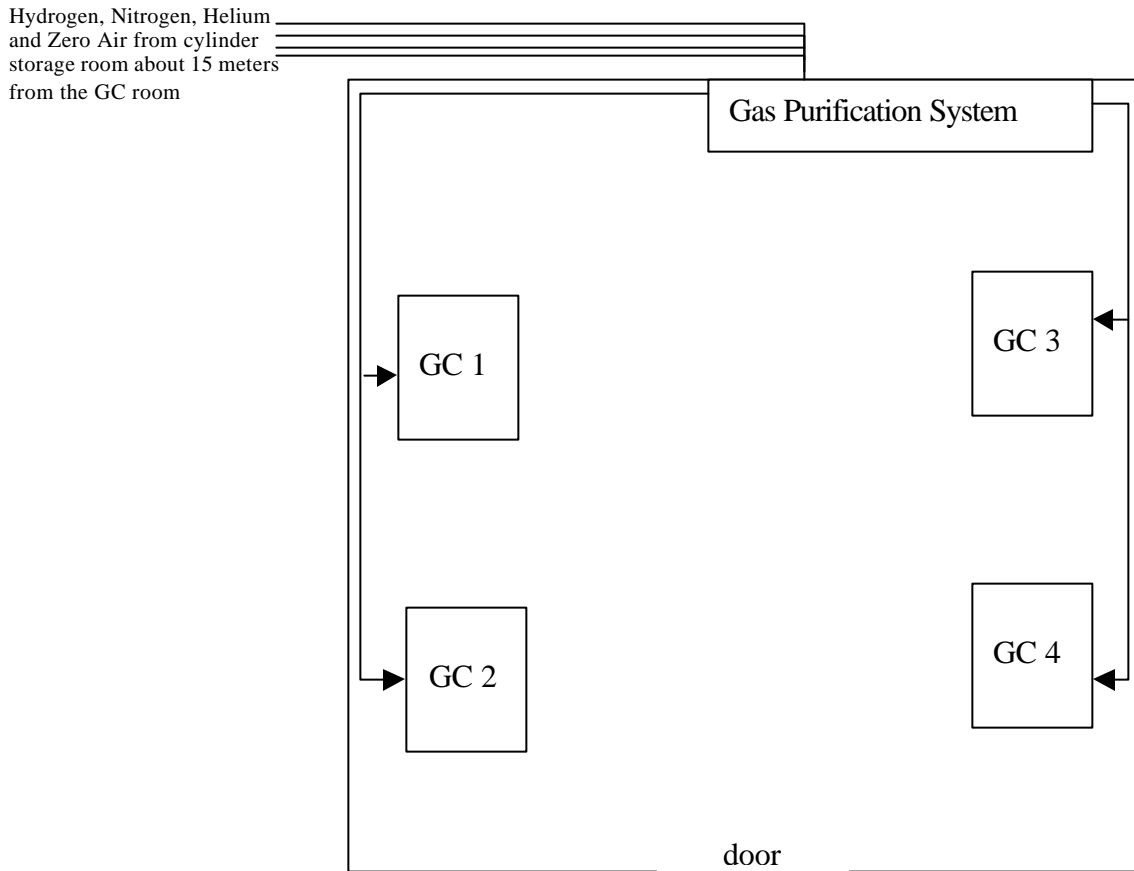
Specifications for Gas Purification System for GC

Quotations are invited for a gas purification system meeting the specifications given below. All the required information is to be provided along with the quotation.

No.	Requirement	Features
1.	A Gas Purification System for attachment to gas cylinders, to ensure supply of purified gases to Gas Chromatographs	<ul style="list-style-type: none"> a. Compact and wall-mounted. b. All gas tubings and plumbing accessories made of high grade stainless steel. c. Simultaneous connections from 4 gas cylinders, viz. Hydrogen, Helium, Nitrogen and Zero Air. d. Colour-coding on the tubings and connections for easy identification of the gas supplied. e. Hydrocarbon, moisture and oxygen traps for each of the four gases, mounted in modular form to facilitate easy replacement. f. Separate regulator valves with stainless steel diaphragms and pressure indication dials for each gas at the outlet.
2.	Gas supply connections	Gas connections with points of delivery for all four gases, ready to be connected to four different gas chromatographs situated in a room of approximately 5m x 3m area, as shown in Figure 1 below. All connections should be of high grade stainless steel, wall-mounted, easily accessible and colour coded for different gases. Facility should be available for sealing off the points of delivery of gases while not in use.
3.	Gas delivery tubings	Supply lines for all four gases from a cylinder room approximately 15 meters away from the GC room, as shown in Figure 1 . All tubings should be high grade stainless steel, properly colour coded. The installation of tubings should be done unobtrusively along the room walls, and provided with easily removable covers. There should be no joints in the tubings between the cylinder room and the GC room. Price per unit length of the tubing should be quoted.
4.	Accessories	All required accessories for making the system functional should be quoted. Any additional accessories required to ensure the required high purity of carrier gases for GC should be quoted.
5.	Additional desirable features	Advanced gas connection accessories like press-fit connectors, meeting all required safety standards, should be quoted if available.
6.	Spares and Consumables	All required spares and consumables for maintaining the system for a period of two years after warranty period should be quoted. Two spares each of hydrocarbon, moisture and oxygen traps should be quoted.

7.	Installation and demonstration	Installation and demonstration charges (if any) for the system should be quoted.
8.	Warranty Information	Complete warranty information should be provided.
9.	Users List	A complete users list for the quoted system in India, with contact name, address, telephone and email should accompany the quotation
10.	Compliance Statement	A statement of compliance with specifications should be included with the quotation.

Figure 1 : Layout of the Installation Room



GC 1, 2, 3 & 4 = Gas Chromatographs
 All four gas supply points to be available for each GC