

Minutes of Pre-Bid Conference (PBC) held on 23-11-2023 for proposed procurement of "Supply, Installation and commissioning Gas Chromatography System-Flame Ionization detector\_FID and NPD as per the Specifications" –

**Chairpersons / Members of the Technical Sub Committee (TSC) present during PBC including domain experts present during PBC:-**

1. Dr N Lingaiah Chairman
- ~~2. Dr. Pratyay Basak, Member~~
3. Dr. Jithender Reddy, Member
4. Dr Sreepariya Vedantam, Member
5. Shri D Venkateshwar Rao, Member
6. IO/PL – PVSS Srinivas & B. Vijaya Thomas as representative of IO

**Representatives of the following firm attended the PBC:**

1. M/s. Perkin Elmer
2. M/s. Camtek Labs (Agilent)
3. M/s. Smart Labtek

**The following points were discussed during the PBC:**

**Query raised by M/s. Perkin Elmer \_\_\_\_\_, and response of CSIR-IICT:**

Query-1: Raised point w r t ramp, to be reduced from 15 to 9

Response: Indenter agreed upon the above modification in the specifications i.e agreed by all the representatives

**Query raised by M/s. Camtek labs \_\_\_\_\_, and response of CSIR-IICT:**

Query-1: In the Injector column, it may be modified as electronic gas controller and manual option may be removed

IICT's Response: The above change is agreed by in consultation with the representatives of participating bidder

Query-2: requirement of purged packed inlet is necessary

IICT's Response: As a spare the purged packed inlet may be provided other participating bidders also agreed to the proposed change.

Query-3: A spare FID whether needed or not.

IICT's Response: Indenter agreed upon not to get the spare FID.

The participating firms informed that they do not have problem with other points of tendered specifications and requirements. Participating bidders have been informed that points raised by them during PBC will be examined by CSIR-IICT's **Technical Sub Committee (TSC)** constituted for the purpose of procurement of said equipment and **post PBC changes**

in tendered specifications and requirements to be agreed after due consideration of the same by TSC, if any, will be uploaded in **CPPP** as part of **revised/amended tendered specifications**.

Minutes of the PBC with changes agreed (if any) will be uploaded in due course at **CPPP** for information and reference of prospective bidders on or before **04.12.2023**. All bidders are requested kindly to take a note of changes in tendered specifications subsequent to PBC held today, i.e. 23-11-2023 before they start submitting their online bids through CPPP.

(Dr. Pratyay Basak)

Member

(Dr Jithender Reddy)

Member

(Dr Sreepriya Vedantam)

Member

(D Venkateshwar Rao)

Member

(P V S Srinivas & B. Vijaya Thomas )

Representative of IO/PL

(Dr. N Lingaiah)

Chairperson

**Revised Specifications/Corrigendum**

File Ref. No. PUR/IICT/DMS/1064/23-24

Dt 23 .11.2023

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Gas Chromatography System (GC) equipped with two Flame Ionization Detector (FID) for gas/liquid sample analysis with all the standard accessories, two capillary inlets and <u>two capillary columns</u> .The Gas Chromatograph system should be controlled by latest software for accurate control of pressure/flow settings of inlets and detectors.	
<b>1.GC system</b>	a) The Gas Chromatograph system should be controlled by software for accurate control of pressure/flow settings of inlets and detectors.
	b) GC system with two <b>split/split less injection ports</b> with all electronic flow controllers to control all gases.
	c) The system should be compatible for helium, hydrogen and nitrogen carrier gases.
<b>2.Column oven</b>	a)Oven temperature ambient +28 to 400°C and more.
	b) Number of Ramps: <u>9 ramps</u> or more.
	c) Fast cooling from 300 to 50°C in less than 6 min or better
	d) <u>Two capillary columns to be supplied with the instrument as the specifications mentioned below with fixing the column required nuts and ferrules for each column.</u> <u>1. CP silica plot (ethylene, freons and hydrocarbon analysis)</u> <u>(Dimensions: Length: 60mXDia:0.32mm, Temperature: -80°C to 260°C)</u> <u>2. Non polar polysiloxane column with 100% Dimethylpolysiloxane</u> <u>(Dimensions: Length: 25mXDia:0.20mm, Film thickness: 0.33µm Temperature: -60°C to 325°C)</u>
<b>3.Injectors</b>	a) two capillary Split/Splitless Injector with electronic gas controller. <del>for manual</del>
	i) GC Injector temperature, ambient to 400° C
	ii) Pressure range upto 6 bar
<b>4.Detector Flame Ionization Detector (FID)</b>	b) One Purged packed Inlet for packed and capillary columns(with adopters)
	a) FID – Two FID should be accommodate on GC. <del>and one more FID setup is required as spare.</del>
	b) Linear Dynamic Range: 10 <sup>7</sup>
	c) FID Ignition: Automatic flame ignition
	d) Operating temperature: 400 °C
e)Much have electronically software control for make-up, H2 and air flows	
<b>5.Software</b>	Original suitable Chromatography Management Software with license should be quoted for instrument control, data acquiring & processing. <u>with perpetual support</u>
<b>6.PC &amp; Printer</b>	Computer with suitable i7, 8th Gen. (or higher). 1TB HDD, original Window 10 or latest with license, 16GB RAM, 21.5 inch display (or more), Wireless Mouse and Keyboard, DVD-RW processor and auto-duplex printer with scanning facility (mutli-functional) <u>compatible with the instrument.</u>
<b>7.Consumables</b>	a) Required spares/consumables for smooth running of instrument for a period of 2years and also six set of capillary nuts with three pack of ferrules in addition
	b) <u>Spare capillary column with suitable nuts and ferrule set.</u> <u>1. Non polar. (5% Phenol) – methyl siloxane</u> <u>(Dimensions: Length: 30mXDia:0.25mm, Film thickness: 0.25µm. Temperature: -60°C to 325°C)</u>
<b>8.Warranty</b>	Three years of comprehensive warranty with preventive maintenance twice in a year.


All the other tender terms remain unchanged. Bidders may please submit their bids accordingly.

~~(Dr. Pratyay Basak)~~

~~Member~~

  
(Dr Jithender Reddy)

Member

  
28.11.2023.  
(Dr Sreepriya Vedantam)

Member

  
28.11.23.  
(D Venkateshwar Rao)

Member

  
23/11/23  
(P V S Srinivas & B. Vijaya Thomas )

Representative of IO/PL

  
28/11/2023  
(Dr. N Lingaiah)

Chairperson