

File Ref. No. PUR/IICT/0434/24-25/EQPTDt: 18-07-2024  
CPPP Tender ID : 2024\_CSIR\_200779\_1

Minutes of Pre-Bid Conference (PBC) held on 18-07-2024 for proposed procurement of "Supply, installation and commissioning of "GC-FLAME IONIZATION DETECTOR (FID & NPD)"

**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. G. Jithender Reddy, Member
4. Sri. D. Venkateswara Rao, Member
5. Dr. Sreepriya Vedantam, Member
6. IO Sri. B. Vijaya Thomas
7. PL -Dr. L. Ravithey Singh

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

1. M/s PerkinElmer Inc.
2. M/s CAMTEK Labs, Hyderabad

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

**Query raised by M/s. PerkinElmer Inc. and response of CSIR-IICT:**

Query-1: Whether detectors FID & NPD both required.

Response: Only FID required and in the title NPD detector removed.

Query-2: Under Column oven, Perkin requested to decrease the number of ramps to 9 instead of 12 and more

Response: IICT as agreed to number of ramps to 9 and more.

Query-3: In 4(f) it is mentioned as Minimum Detectable Level (MDL):  $\leq 1.2$  pg C/s, but with respect to compound.

Response: IICT will not change the specification in 4(f) Minimum Detectable Level (MDL):  $\leq 1.2$  pg C/s

**Query raised by M/s. CAMTEK Labs and response of CSIR-IICT:**

Query-1: In 2(a) it is mentioned as Oven temperature ambient +28 to 400°C and more, please rectify as ambient +5 to 400°C

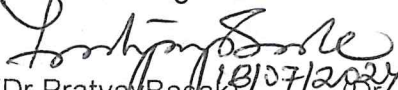
Response: Yes.

Query-2: consumables and spare kit.

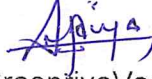
Response: IICT added Digital gas flow meter, tool kit for GC unit and Soap solution.


**Points clarified by CSIR-IICT Team during PBC:**

The representatives of the participating firm/further informed that they do not have any issue or suggestion with respect to other points of tendered specifications and related requirements given in the tender document. Participating bidders have been informed that points raised by them during PBC will be examined by CSIR-IICT's **Technical Sub Committee (TSC)/Technical team** 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** along with CSIR-IICT website [www.iict.res.in](http://www.iict.res.in) on or before 22.07.24. All bidders are requested kindly to take a note of the changes, if any, in tendered specifications subsequent to **PBC** held today, i.e. 18-07-2024 before they start submitting their online bids through CPPP.

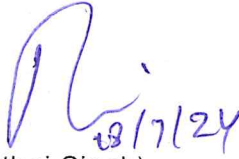
  
(Dr. Pratyay Basak)  
Member

(Dr. Jithender Reddy)  
Member


  
(Dr. Sreepriya Vedantam)  
Member

  
(Sri. D. Venkateswara Rao)  
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(Sri. B. Vijaya Thomas)  
IO

  
(Dr. L. Ravithej Singh)  
PL

Chairperson

  
(Dr. N. Lingaiah)  
Chairperson

Subsequent to PBC, the "revised /amended" specifications under chapter 4 for the tendered GC units with ID no: **2024\_CSIR\_200779\_1** are as of the tender documents specification autoclave (PUR/ICT/0434/24-25/EQPT).

<p>Gas Chromatography System (GC) equipped with two <b>Flame Ionization Detector (FID)</b> for gas/liquid sample analysis with all the standard accessories and two capillary inlets. The Gas Chromatograph system should be controlled by latest software for accurate control of pressure/flow settings of inlets and detectors.</p>	
<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 split/split less injection ports with all electronic flow controllers to control all gases.
	c) The system should be compatible for helium, hydrogen and nitrogen carrier gases.
	d) GC model number along with the design/schematic diagram of quoted GC should be provided in a standard brochure.
	e) All the parts of the GC system with part /serial numbers should be included in the quotation.
	a) Oven temperature <b>ambient +5 to 400°C</b> and more.
<b>2. Column oven</b>	b) Number of Ramps: <b>9 ramps</b> or more.
	c) Fast cooling from 300 to 50°C in less than 6 min or better
	d) Temperature set point resolution 1 °C or better.
	a) Two capillary Split/Splitless injector with electronic gas controller.
<b>3. Injectors</b>	i) GC Injector temperature, ambient to 400°C
	ii) Pressure range up to 6 bar
	a) FID – <b>Two FID</b> should be accommodate on GC and one spare FID set is required.
<b>4. Detector Flame Ionization Detector (FID)</b>	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
	f) <b>Minimum Detectable Level (MDL): ≤1.2 pg C/s</b>
	Original suitable Chromatography Management Software with license should be quoted for instrument control, data acquiring & processing with perpetual support.
<b>5. Software</b>	Computer with suitable i7, 8th Gen. (or higher). 2 TB 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 (multi-functional) compatible with the instrument.
	<b>6. PC &amp; Printer</b>

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*MS*

*10/2/2024*

7. Consumables	<p>a) Required spares/consumables for smooth running of instrument for a period of 2 years and also six set of capillary nuts with three packs of ferrules in addition.</p> <p>b) Two numbers of Non-polar polysiloxane column with 100% Dimethylpolysiloxane. (Dimensions: Length: 25m x Dia: 0.20mm. Film thickness: 0.33µm, temperature -60 to 350 °C)</p> <p>c) <b>Digital gas flow meter, tool kit for the GC unit and soap solution should be provided.</b></p>
8. Warranty	<p>Three years of comprehensive warranty with preventive maintenance twice in a year.</p>

