

**Minutes of Pre-Bid Conference (PBC) held on 22-08-2024 for proposed procurement of "Supply, installation and commissioning of "GC with FID and TCD - 1 No."**

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

1. Dr. N.Lingaiyah, Chairman
2. Dr.PratyayBasak, Member
3. Dr.G.Jithender Reddy, Member
4. Sri. D. Venkateswara Rao, Member
5. Dr.SreepriyaVedantam, Member
6. IO Dr. Reddi Kamesh
7. PL Dr. K. Yamuna Rani

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

1. M/s Camtek Labs, Hyderabad
2. M/s Smart Lab Tech, Hyderabad

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

**Queries raised over e-mail by M/s Camtek Labs and responses:**

**Query-1:** Specification under component "GC system: Gas and Liquid analyser system for online and offline analysis (S.No.1)", M/s Camtek Labs Requested Modification to amend "install up to 3 detectors & 2 injectors simultaneously + one gas sample injector (valve)" Instead of existing specification as "Facility to install up to 3 detectors & 3 injectors simultaneously."

**Response:** Yes, requested amendment is incorporated in the revised specifications

**Query-2:** Specification under component "Column Oven (S.No.2)", M/s Camtek Labs Requested "Modification to amend to oven capacity as 13 L or more" Instead of existing specification as "oven capacity as 15 L or more."

**Response:** Yes, requested amendment is incorporated in the revised specifications



**Query-3:** Specification under component "Sample Injection Unit (S.No. 3)" M/s Camtek Labs Requested "Modification to amend "single packed injection unit" Instead of existing specification as "Dual Packed Injection unit – 1no."

**Response:** Yes, requested amendment is incorporated in the revised specifications

**Query-4:** Specification under component "Sample Injection Unit (S.No. 3)" M/s Camtek Labs Requested Modification to amend "2 Gas liquid inj ports + 1 gas inj port (valve)" Instead of existing specification as "No. of Unit installed simultaneously: up to 3 nos."

**Response:** In the revised specifications, CSIR-IICT removed above specification as its already mentioned in S.No.1.

**Query-5:** Specification under component "Carrier Gas Flow controller with dual Advance Flow Controller (S.No. 4)" M/s Camtek Labs Requested Modification to amend "maximum operating temp:400°C" Instead of existing specification as "Maximum operating temperature:425 °C"

**Response:** In the revised specifications, CSIR-IICT accordingly corrected maximum temperature/ maximum operating temperature as 400°C or better for Carrier Gas Flow controller as-well-as other components such as Column oven, and both detectors

**Query-6:** Specification under component "Detector type (S.No. 6)" M/s Camtek Labs Requested Modification to amend "Minimum detection quantity: <1.2 pgC/s or better spec" Instead of existing specification as "Minimum detection quantity: 3pgC/s (dodecane)"

**Response:** As suggested specification fits within the original specs specified by IICT, we just made correction as "Minimum detection quantity: 3pgC/s (dodecane) or better" instead of "Minimum detection quantity: 3pgC/s (dodecane)".

**Query raised by M/s Camtek Labs, and response of CSIR-IICT:**

Above queries were also discussed during in-person pre-bid meeting, in addition to above queries following queries were raised by M/s Camtek Labs representative and responses of CSIR-IICT are listed below:

**Query-1:** In TCD detector under specifications (S.No 6) "Max acquisition rate" M/s Camtek Labs representative requested increase its value to 500 Hz or better.

**Response:** As suggested specification fits with the original specification for participating in tender, we have not changed any modification in the suggested specs to allow wide range of specification for multiple vendors to participate.

**Query-2:** In TCD detector under specifications (S.No 6) "Sensitivity: > 40000 mV × mL/mg (decane)" M/s Camtek Labs representative requested to include its equivalence sensitivity in pg/ml.



**Response:** In the revised specifications, CSIR-IICT accordingly included equivalent sensitivity in pg/ml i.e., Sensitivity: > 40000 mV × mL/mg (decane) or 400 pg/ml or better

**Query-3:** Under “essential accessories (s.no 8)” M/s Camtek Labs representative requested to remove liners for PTV inlets as its not required for the system requirement or applications for with in the specification mentioned.

**Response:** Suggested accessory is removed in the revised specifications

**Query raised by M/s Smart Lab Tech, and response of CSIR-IICT:**

The following queries raised by M/s Smart Lab Tech representatives during in-person PBC, and response of CSIR-IICT are listed below:

**Query-1:** In TCD detector under specifications (S.No 6) “Max acquisition rate” M/s Smart Lab Tech representative requested increase its value to 500 Hz or better.

**Response:** As suggested specification fits with the original specification for participating in tender, we have not changed any modification in the suggested specs to allow wide range of specification to participate multiple vendors.

**Query-2:** In TCD detector under specifications (S.No 6) “Sensitivity: > 40000 mV × mL/mg (decane)” M/s Smart Lab Tech representative requested to include its equivalence sensitivity in pg/ml.

**Response:** In the revised specifications, CSIR-IICT accordingly included equivalent sensitivity in pg/ml i.e., Sensitivity: > 40000 mV × mL/mg (decane) or 400 pg/ml or better

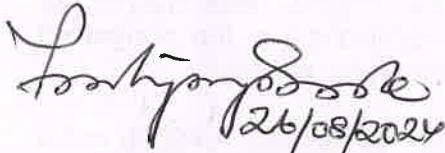
**Query-3:** Under “essential accessories (s.no 8)” M/s Smart Lab Tech representative requested to remove liners for PTV inlets as its not required for the system requirement or applications for with in the specification mentioned.

**Response:** Suggested accessory is removed in the revised specifications



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

Two bidders have physically attended the meeting (M/s Camtek Labs, Hyderabad, and M/s Smart Lab Tech, Hyderabad). One of the bidders, M/s Camtek Labs has also raised queries over e-mail. All points were discussed by the technical committee and point wise responses are drafted. The representatives of the participating firm were 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. Responses and modifications made, 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) or before \_\_\_\_\_. All bidders are requested kindly to take a note of the changes, if any, in tendered specifications subsequent to **PBC** held today, i.e. 22-08-2024 before they start submitting their online bids through CPPP.



(Dr. Pratyay Basak)  
Member



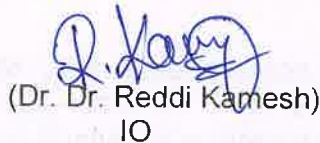
(Dr. Jithender Reddy)  
Member



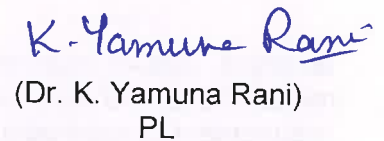
(Dr. Sreepriya Vedantam)  
Member



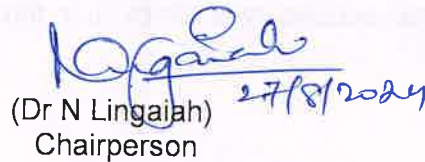
(Sri. D. Venkateswara Rao)  
Member



(Dr. Dr. Reddi Kamesh)  
IO



(Dr. K. Yamuna Rani)  
PL



27/8/2024

(Dr. N Lingajah)  
Chairperson

CPPP Tender ID : 2024\_CSIR\_205012\_1

The following changes has been made in tendered specification subsequent to PBC held on 22.08.2024

S. No.	Existing Specifications	Revised/Amended Specifications
1	<b>Component- 1. GC system: Gas and Liquid analyser system for online and offline analysis :</b> Facility to install up to 3 detectors & 3 injectors simultaneously.	Facility to install up to 3 detectors & 2 injectors simultaneously + one gas sample injector (valve)
2	<b>Component- 2. Column Oven:</b> <ul style="list-style-type: none"> <li>• Temperature Range: Room Temp to 450 °C</li> <li>• Oven Capacity: 15 L or more</li> <li>• Oven Cooling Time: 450 to 50 ° C within 6 min or better</li> </ul>	<ul style="list-style-type: none"> <li>• Temperature Range: Room Temp to 400 °C</li> <li>• Oven Capacity: 13L or more</li> <li>• Oven Cooling Time: 400 to 50 ° C within 6 min or better</li> </ul>
3	<b>Component-3. Sample Injection Unit</b> <ul style="list-style-type: none"> <li>• Dual Packed Injection unit – 1no.</li> </ul>	<ul style="list-style-type: none"> <li>• Single Packed Injection unit – 1no.</li> </ul>
4	<b>Component-4. Carrier Gas Flow controller with dual Advance Flow Controller</b> For Capillary Split / Splitless : <ul style="list-style-type: none"> <li>• Maximum operating temperature: 425 °C</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum operating temperature: 400 °C</li> </ul>
5	<b>Component-6. Detector type</b> <b>Flame Ionization Detector (FID):</b> <ul style="list-style-type: none"> <li>• Dual FID – for packed &amp; capillary application</li> <li>• Temperature range: up to 425 °C or better</li> <li>• Minimum detection quantity: 3pgC/s (dodecane)</li> </ul> <b>Thermal Conductivity Detector (TCD):</b>	<b>Flame Ionization Detector (FID):</b> <ul style="list-style-type: none"> <li>• FID – for packed &amp; capillary application</li> <li>• Temperature range: up to 400 °C or better</li> <li>• Minimum detection quantity: 3pgC/s (dodecane) or better</li> </ul> <b>Thermal Conductivity Detector (TCD):</b>



	<ul style="list-style-type: none"> <li>Sensitivity: &gt; 40000 mV × mL/mg (decane)</li> </ul>	<ul style="list-style-type: none"> <li>Sensitivity: &gt; 40000 mV × mL/mg (decane) or 400 pg/ml or better</li> </ul>
6	<b>Component-8. Essential Accessories</b> <ul style="list-style-type: none"> <li>Liners for S/SL and PTV inlets (3 each).</li> </ul>	<ul style="list-style-type: none"> <li>Liners for S/SL inlets</li> </ul>
7	<b>Component-9. Warranty</b> <ul style="list-style-type: none"> <li>Supplied Instrument should have 2 years comprehensive warranty</li> </ul>	<ul style="list-style-type: none"> <li>Supplied Instrument should have 3 years comprehensive warranty along with spare parts</li> </ul>


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


  
 (Dr. Pratyay Basak)  
 Member


  
 (Dr. Jithender Reddy)  
 Member

  
 (Dr. Sreepriya Vedantam)  
 Member

  
 (Sri. D. Venkateswara Rao)  
 Member

  
 (Dr. Dr. Reddi Kamesh)  
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 (Dr. K. Yamuna Rani)  
 PL

  
 (Dr. N Lingaiah)  
 Chairperson

