File Ref. No. PUR/IICT/DMS/RE/412/23-24 **Dt: 04 -12-2023**
CPPP Tender ID : 2023_CSIR_175178_1

Minutes of Pre-Bid Conference (PBC) held on 04-12-2023 for proposed procurement of *"SUPPLY INSTALLATIN COMMISSIONING OF SINGLE CRYSTAL X RAY DIFFRACTOMETER"* –

Chairpersons / Members of the Technical Sub Committee (TSC) present during PBC including domain expertspresent 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 – Dr. B. Sridhar

Representatives of the following firm attended the PBC:

1. M/s. I.R. Technology Services PVT. LTD. Hyderabad
2. M/s. Bruker-India AXS, Hyderabad

The following points were discussed during the PBC:

Query raised by M/s. I.R. Tech and response of CSIR-IICT:

Query-1: IICT delivery period is 60 days from the date of the Purchase Order.

M/s. I.R. TECH wants it for 6 to 7 months

Response: IICT agreed to change the delivery period to 6 to 8 months from the date of the purchase order.

Query-2: Under Point number 3 in spec sheet (**X-ray Detector & Beam Optics)**
a) The active area of the detector should be 100 x 100 mm or larger without any dead region-

M/s. IR TECH requested the above point to be changed to "The active area of the detector should be 75 x 75 mm or large

Response: Our Center for X-ray Crystallography, CSIR-IICT is the central facility that supports the needs of internal research groups and industry partners in the specialized domain of single crystal structural analysis. We are dealing with a large number of crystals with different types of applications. Apart from routine samples, we need to deal with absolute configuration determination of organic samples, large unit cell samples, air-sensitive samples, twinned samples, and specialized applications like charge density analysis etc. The active area of the detector plays a crucial role in all the above-mentioned applications, and it always has the benefit of collecting faster data collection and more reflections per frame which leads to much better high-quality data.

B. Sridhar.

Rigaku also offers high active area (155.2 mm * 162.5 mm) high-resolution photon counting X-ray detectors for single crystal X-ray diffraction (please refer to enclosed brochure downloaded from Rigaku's website).

Hence, based on our R &D requirements and keeping in mind the technical advantages of a large active area, the specification cannot be modified.

Query-3: Under Point number 3 in spec sheet (X-ray Detector & Beam Optics)

d) Detective Quantum Efficiency (DQE) must be ≥ 90% for both Cu & Mo radiations.

M/s IR TECH requested to change this to 60% or more for Mo and 90% or more for Cu (Our Mo DQE is 60% and Cu DQE is 99%).

Response: As mentioned in the above query, the intended diffractometer is supporting all types of applications, hence we have both low-energy Cu and high-energy Mo radiation. The offered detector should equally be capable of detecting diffractions from both radiations. The Detective Quantum Efficiency (DQE) defines the capability of the detector to reliably absorb and detect all the diffraction coming from the sample from both radiations. The higher DQE provides better intensity count statistics and better data.

Hence, based on our R &D requirements for the most accurate measurements from both radiation, DQE specifications cannot be modified.

Query raised by M/s. Bruker-India AXS, and response of CSIR-IICT:

Query-1: IICT delivery period is 60 days from the date of the Purchase Order.

M/s. Bruker wants it for 8 months.

Response: IICT agreed to change the delivery period to 6 to 8 months from the date of the purchase order.

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

B. Madhav

Points clarified by CSIR-IICT Team during PBC:

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 **21.12.2023**. All bidders are requested kindly to take a note of changes in tendered specifications subsequent to PBC held today, i.e. 04-12-2023 before they start submitting their online bids through CPPP.

(Dr. Pratyay Basak) 07/12/2023 (Dr Jithender Reddy) (Dr Sreepriya Vedantam)

Member Member Member

(D Venkateshwar Rao) (Dr. B. Sridhar)

Member IO/PL

(Dr.Dr N Lingaiah) 7/12/2023

Chairperson

Revised Specifications/Corrigendum

File Ref. No. PUR/IICT/DMS/RE/412/23-24 **Dt .04-12-2023**

S.No	Tender Clause No.	Existing	Revised
1	**Under Special conditions of contract (SCC)** GCC 2.16.3: **Delivery period**	60 days from the date of Purchase Order	Six to eight months from the date of Purchase order

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

07/12/2023

(Dr. Pratyay Basak) (Dr Jithender Reddy) (Dr Sreepriya Vedantam)

Member Member Member

7/12/23

(D Venkateshwar Rao) (Dr. B. Sridhar)

Member IO/PL

7/12/2023

(Dr.Dr N Lingaiah)

Chairperson

Signature Not Verified

Digitally signed by DHARMENDRA KUMAR
Date: 2023.12.11 16:25:25 IST
Location: eProcurement System for Central PSUs