

सं. Ref. No. RFT/IND/256/TMT/20-21

दिनांक Dated: 18th December 2020

**विषय Sub: Conceptual Design of the Secondary Mirror and Tertiary Mirror for TMT
M2 /M3 Coating Facility - reg.**

**संदर्भ Ref: Tender Reference Number. RFT/IND/256/TMT/20-21 and
Tender ID No. 2020_IAP_599499_1 dated 27th November 2020
Pre-Bid Meeting conducted on 11th December, 2020**

Responses to the queries, comments and clarifications sought during the Pre-Bid meeting.

Q 1: Can you clarify what level of technical information for the proposed work you require in the submitted bid?

A: In the proposal provided at the bidding stage we expect that the vendors shall describe the proposed methodology of demonstrating the coating system design's compliance with each of the coating requirements. At the bidding stage we would not expect details of the proposed system itself. This means that we would like to see the method by which the vendor intends to demonstrate that the system they design will be capable of meeting the required coating properties such as layer thickness uniformity, reflectivity, adhesion and abrasion resistance. The proposal should also include the proposed method of selecting the chosen chamber architecture, vacuum levels and magnetron arrangement such that they will fulfill the requirements of the system.

Q 2: Can you describe the level of technical detail you require for the conceptual design?

A: The intent of the conceptual design is to demonstrate that the coating chamber design is capable of producing a coating that meets the coating requirements. We expect that this will require a combination of providing an outline coating chamber design, and validating that design through a combination of calculation, modeling, and/or experimental data. The outline chamber design should include enough detail to show that it is possible for such a system to be built and operated in the available space envelope, it should include a list of system components (including identifying commercially available components, and custom components), and should

document the overall chamber architecture, mirror loading scheme and magnetron arrangement, along with the required pumping speeds.

Q 3: Can you explain the confidentiality and ownership of the conceptual designs which will be provided by the supplier under the contract? For example, will the conceptual design become the exclusive property of IIA? And is IIA/ITCC bound by any confidentiality with regard to sharing the design with another equipment supplier, etc.?

A: As stated in the clause 10.5 of the RFP, Intellectual Property Rights arising directly from the Work, upon completion, vest in ITCC/TMT. However, once the bid is won, this can be part of the contract negotiation where upon, the extent to which information need to be disclosed to fulfill the requirements in accordance with Q 2 can be negotiated and mutually agreed upon.

Q 4: With reference to the clause as per RFP 9.2.1.1, request ITCC/IIA to provide the recent notification of ministry of commerce and industry and conditions therein to understand and to adhere.

A: The most recent notification released by the ministry of commerce and industry is uploaded for reference.

Q 5: With reference to the reference documents, request ITCC/IIA to share the document which is not available in the tender documents.

A: All the available documents are uploaded again. Refer to Drawing_Env_Final (pdf).

Q 6: With reference to the pre-Bid meeting presentation made by TIO, request ITCC/IIA to share the presentation made on the scope in order to take notes and cover the points in the bid.

A: The requested presentation is made available.

Q 7: With reference to the DRD, section 2.1.3 on the coating plant architecture, TMT suggested three different configurations; (1) Linear magnetrons with radial movement and substrate rotation. (2) Stationary substrate with rotation & magnetrons at multiple radial position and rotation. (3) Multiple circular magnetrons across the radius of the substrate. Request to clarify whether the scope includes the solution for all the mentioned configurations, or any one of the configurations?

A: The options provided in the DRD are just recommendatory and not conclusive. It is expected from vendors to come-up with a system that is efficient and superior in performance in accordance with the requirements listed in the DRD. A clear mention of the main drivers supported through combination of calculation, modelling, and/or experimental data for the chosen configuration is expected.

Q 8: With reference to section 6.1 of RFP, M2 & M3, request to share the details of the M2CA and M3CA in the event of order being placed on us; Drawing files, Approximate degassing rates for the materials of construction, Interfaces with the rotary mechanism.

A: The M2CA and M3CA systems are still in development stage. The dimensions sufficient for a conceptual design are provided in the DRD Sec 3.

Q 9: With reference to the RFP, section 7.1, request to elaborate on what is meant by support system isolation.

A: When placed inside the coating chamber, M2 and M3 are still attached to their respective support structures. Although the material used in the support structures are vacuum compatible, some amount of degassing is expected.

Q 10: Ref. RFP Sec. 10.4, can you please explain the bid security interest? Is there a specific amount in rupees? Or is this some percentage of the contract value?

A: This is not referring to any monetary security. The clause is a general condition which is applicable in any tendering process for manufacturing work.

Q 11: Can you comment about the requirements for % local content? Is there a minimum % required in order to participate in the bid?

A: Please refer to the most recent notification released by the ministry of commerce and industry (attached) for definitions and explanations.

Q 12: With reference to the RFP, while preference is given to Indian suppliers, (ref. Sec 13 in T&Cs), it is permissible for non-Indian suppliers to make a bid? Will the evaluation process for the Conceptual design proposals take place as described in Sec. 13 whereby every Indian supplier meeting the specifications would be allowed to match the bid of a non-Indian supplier?

A: Generally, In Global Tender Enquiry (GTE) , non-local suppliers shall also be eligible to bid along with Class-I local suppliers and Class-II local suppliers. As per the recent extant orders issued by Government of India, GTE shall not be issued except with the approval of competent authority and there is no such approval taken for this tender. Hence Only Class-I local supplier and Class-II local supplier, are eligible to bid in procurement. As per definition works includes Engineering, Procurement and Construction (EPC) contracts and services include System Integrator (SI) contracts. In view of the above, foreign company are not allowed to bid directly.

Q 13: Is my understanding correct that, subsequent to the finalization of conceptual design phase and CoDR, ITCC would then take that design and, based on it, generate a formal RFQ for the actual construction/realization of the M2M3CF for open tender? Or, is it the case that the winner of conceptual design contract will automatically be given preference for the contract for the construction of the coating plant. It would be helpful if you can please describe this process.

A: Subsequent to the finalization of conceptual design phase and CoDR, ITCC/TMT would generate a formal RFQ (open tender) for the actual construction/realization of the M2M3CF.

The information captured in the concept design will be used by ITCC/TMT to frame additional requirements to realize an efficient coater system for M2/M3CF.

Q 14: Do you have already an estimated schedule for the RFQ for construction/realization of the coater?

A: As a part of deliverables it is expected to provide a preliminary schedule required to design, fabricate, transport, install and commissioning of the coater. Based on the schedule provided, ITCC/TMT will estimate the schedule for the RFQ for construction/realization of the coater.

Q 15. Is it possible to extend the last date for the submission of bids?

A: The last date for the submission of the bids is now 11th January, 2021.

Q 16. With regard to the solvency certificate, are there any specific/minimum solvency or cash flow numbers which are required?

A: No. It is only to ensure that the vendor is not insolvent
