

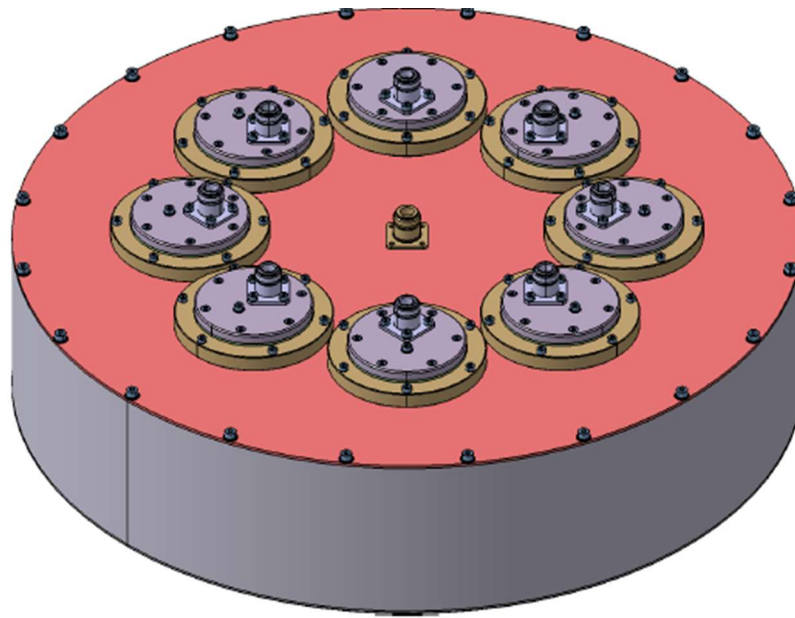
<b>Title</b>	<b>Tender No. I-I/ET/24016/24-25 for Fabrication of the parts for upgradation of existing cavity combiner</b>
<b>Subtitle</b>	<b>Annexure-A: Scope of Work, Supply, Technical Specification and other Terms and Conditions of Tender</b>



## **Technical specifications & terms**

### **1. Introduction**

The cavity combiner is a multiport device used to combine radio frequency power. It is a mechanical component fabricated in multiple parts as shown in the below figure. This tender scope includes fabrication, assembly, and delivery of the parts of the existing cavity combiner as per Table 3 and attached drawing no. II/ICH/500 MHz/DCC/. The arrangement of components is shown in the below figure.



Isometric view  
Scale: 1:2

### **2. Scope of Work of Bidder**

- Procurement of material required and submission of material test certificate to get ITER-India's approval for further fabrication.
- Fabrication/ manufacturing of individual parts of cavity combiner assembly as per Table 3 and drawing no: II/ICH/500MHz/DCC/ given in Annexure-I.
- Fasteners and Heli-coil inserts required for assembly are under the bidder's scope, material of the fastener & Heli-coil insert should be SS 304.

- Mechanical inspection (dimensional, surface finish, compatibility, etc.) of individual components will be done at the bidder's site in the presence of the ITER-India representative as per drawings.
- Submission of the factory inspection report to ITER-India for dispatch clearance certificate.
- Delivery of cavity combiner components to ITER-India lab, IPR site with adequate packing to avoid damage during transportation.
- Site acceptance test at ITER-India site & test report submission to ITER-India
- Provide a one-year warranty from the date of final acceptance.

### 3. *Material Procurement*

The system is fabricated from the following grades of materials:

- Copper – grade ETP (99.9%Cu)
- Cu Zn 39 Pb 2 (Brass)
- SS 304
- Aluminum 6061-T6
- PTFE unfilled

Note: Before procurement, the bidder should check the requirements from the attached engineering drawings.

### 4. *Precaution to be taken during Fabrication and Assembly*

- No modification in the drawing or design is permitted except in cases where it is necessary to facilitate manufacturing without changing the function, accuracy, and strength of the component. Provide prior justification and drawings to the ITER-India representatives for approval before implementing it.
- All sharp edges should be avoided and rounded off.
- Surface irregularities, scratches, dents, and tool marks are not allowed on the surfaces.
- Holes should be drilled with essential matching of various parts, wherever applicable.
- Necessary machining shall be done to get the required straightness, roundedness, perpendicularity, and concentricity (as applicable).

## 5. *Inspection & Testing*

### I. **Quality checks during fabrication:**

- (a) The material used in the components will be checked for its required properties to confirm the material grade, based on the test certificate submitted by the bidder.
- (b) All the individual components shall be inspected for their dimensional accuracy, brazing/ welding if any, and surface finish requirements as per the drawings and specifications.
- (c) Bidder shall arrange all gauges and measurement tools for inspection at their site.

### II. **Factory acceptance test:**

The following acceptance test will be carried out at the supplier's factory:

1. Visual check for any damage. Bidder shall repair/replace if any damage is found.
2. Dimensional and geometric tolerances shall be inspected. Assemblies of parts will be performed to check integrity.

### III. **Site Acceptance Test**

The following site acceptance test will be carried out at the ITER-India site:

1. Visual check for any damage. Bidder shall repair/replace if any damage is found.
2. Dimensional and geometric tolerances shall be inspected. Assemblies of parts will be performed to check integrity.

## 6. *Dispatch & Packing Requirements:*

All components are required to be packed with standard soft material to avoid damage to the machined surfaces. All mating surfaces of flanges must be masked with proper covers to avoid damage during handling and transportation. Packing shall be sturdy and rigid enough to withstand shocks and vibrations during transportation of the system.

Any damage to the components during transportation or due to any other cause, will not be accepted and no compensation shall be paid by ITER-India for the same. The bidder shall take due care regarding packing and forwarding of the system. It is the liability of the bidder

to deliver the system in perfect working condition to ITER-India. Damaged components will be repaired/ replaced by the bidder free of cost.

**7. General Terms and Conditions:**

1. All the machined surfaces should be 2 -delta finish otherwise mentioned.
2. All the threads should be in the metric system or otherwise as mentioned in the drawings.
3. Suitable fasteners for assembly should be made of SS 304.

**8. Delivery Time**

Delivery should not be delayed in any case beyond **12 weeks** after getting a confirmed purchase order from ITER-India.

**Table 1: Delivery Schedule**

Sr. no.	Description	Duration
1	Placement of PO	T0
2	Procurement of materials & submission of relevant test report	T1 = T0 + 8 weeks
3	Fabrication of different components	T2 = T1 + 2 weeks
4	Factory Acceptance Test	T3 = T2 + 1 week
5	Delivery to the ITER-India site	T4 = T3 + 1 week
6	Site Acceptance Test	T5 = T4 + 1 week

Note: In case the fabrication of components depends upon external agencies, it will be the responsibility of the supplier to get the things made at the right time so as not to get the delivery schedule affected.

**9. Delivery Location:**

**3<sup>rd</sup> Floor, ITER-India Lab,**  
**Institute for Plasma Research**  
**Near Mother Dairy, Bhat Village,**  
**Gandhinagar-382 428, Gujarat, India**

10. **Compliance:**

The bidder should fill the Table 2 and submit the same with their signature along with the offer/quotation.

**Table 2: Compliance list**

Sr. Nos.	ITER-India Specifications	Bidder Specifications	Complied? Yes / No	Remarks
1	Procurements of material required for all assemblies.			
2	Submission of material test certificate to ITER-India for approval.			
3	Fabrication/ manufacturing of individual parts of the cavity combiner assembly as per Table 3 and drawing no: II/ICH/500MHz/DCC/ given in Annexure-I			
4	All the SS 304 fasteners are under the vendor's scope.			
5	Mechanical inspection (dimensional, surface finish, etc.) of individual components at the bidder's site in the presence of the ITER-India representative as per drawings.			
6	Bidder shall review the assembly procedure given in section 5 & ensure that the final assembly of the entire system will be as per requirement without any damage.			
7	Submission of the factory inspection report to ITER-India for dispatch clearance certificate.			
8	Delivery of cavity combiner components to ITER-India lab, IPR site with adequate packing to avoid damage during transportation			
9	Site acceptance test covering inspection of overall dimensions at ITER-India site & test report submission to ITER-India			
10	Provide a one-year warranty from the date of final acceptance.			

**11. List of deliverables:**

The following parts as given in Table 3 need to be fabricated as per the mentioned quantities and drawing numbers.

**Table 3: List of the parts deliverable**

Part name	Drawing no.	Quantity
Top Plate	II/ICH/500MHz/02	01 set
Bottom Plate	II/ICH/500MHz/03	01 set
Port Assembly (without N connector)	II/ICH/500MHz/04	08 set
N-type connector pin with copper tuner	II/ICH/500MHz/09	04 set

**Note:** N connector, Finger contact, and outer cylinder are out of scope from the current tender and are only given for reference in the assembly view.

**12. Cancellation/Termination of Contract**

**12.1 Termination of Contractor/Service Provider for default**

12.1.1 The Purchaser may, without prejudice to any other remedy for breach of Order/CONTRACT, by written notice of default sent to the Contractor/Service Provider, terminate the Order/CONTRACT in whole or in part in circumstance detailed hereunder:

12.1.1.1 If the Contractor/Service Provider fails to supply/provide any or all of the deliverable items/service, within the time period(s) specified in the Order/CONTRACT or any extension thereof granted by the Purchaser or within the period (10 weeks) till which the maximum LD amount is reached.

12.1.1.2 If the Contractor/Service Provider fails to perform any other obligation(s) under the Order/CONTRACT within the period specified in the Order/CONTRACT or any extension thereof granted by the Purchaser

12.1.2 In the event the Purchaser terminates the CONTRACT in whole or in part, the Purchaser may take recourse to any one or more of the following actions. However, the Contractor shall continue to perform the CONTRACT to the extent not terminated

12.1.2.1 The Purchaser may procure, upon such terms and in such manner as it deems appropriate, items similar to those covered under the terminated Order/CONTRACT and the Contractor/Service Provider shall be liable to the Purchaser for all costs incurred in purchasing such goods subject to maximum liability cap of total Order/CONTRACT value.

12.1.3 If the Order/CONTRACT is terminated as provided in clause 12.1, the Purchaser in addition to any other rights provided in the clause, may require the Contractor/Service Provider to transfer title and deliver to the Purchaser any completed items that are found to be useful and acceptable to the Purchaser. The Purchaser shall pay to the Contractor/Service Provider, the Order/CONTRACT price of such completed items that are delivered to and accepted by the Purchaser.

12.1.4 The termination will not relieve the Contractor/Service Provider from submitting the Performance Bank Guarantee for the portion not terminated.

### **13. Compliance to Make in India (MII)**

13.1 Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

13.2 OM\_No.1\_4\_2021\_PPD\_dated\_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.



#### **14. Compliance to Land Border Sharing**

14.1 Any bidder from a country that shares a land border with India(i) , excluding countries as listed on the website of the Ministry of External Affairs(ii) , to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects (hereinafter called 'Restricted Countries') shall be eligible to bid in this tender only if Bidder is registered(iii) with the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Bidders shall enclose the certificate in this regard as per Annexure-III <https://mea.gov.in/india-and-neighbours.htm> (ii) <http://meadashboard.gov.in/indicators/92> (iii) <https://dipp.gov.in/sites/default/files/Revised-Application-Format-for-Registration-of-Bidders-15 Oct 2020.pdf>

14.2 Bidder from such Restricted Countries" means: - a) An entity incorporated, established, or registered in such a country; or b) A subsidiary of an entity incorporated, established, or registered in such a country; or c) An entity substantially controlled through entities incorporated, established, or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A consortium/ joint venture where any member falls under any of the above.

#### **15. The shortfall information/documents:**

The shortfall information/documents shall be sought only in case of historical documents which pre-existed at the time of the bid opening and which have not undergone change since then. So far as the submission of documents is concerned with regard to eligibility criteria, after submission of the bids, only related shortfall documents shall be asked for and considered. For example, if the bidder has submitted a supply order without its completion / performance certificate, the certificate can be asked for and considered. However, no new supply order shall be asked for so as to qualify the bidder

#### **16 Following documents need to be submitted by bidders duly filled and signed with official seal along with bid submission.**

1. Table-2 & Table-4 of Annexure-A
2. Annexure-II : Self-declaration by Bidder of a country sharing/not sharing land border with India
3. Annexure-III: Self-Certification under preference to Make in India order Certificate
4. Annexure-IV: Bidder's confirmation regarding submitted Price Bid:
5. Annexure-V : Letter for Acceptance of Tender

**17.** The bidder should fill the table-4 and submit the same with signature along with the offer/quotation

**Table-4**

Sr. Nos.	Tender Specifications	Bidder Compliance Yes / No	Remarks
1	Scope of Work		
2	Material Procurement		
3	Precaution to be taken during Fabrication and Assembly		
4	Inspection & Testing		
5	Dispatch and Packing Requirement		
6	General Terms and Conditions including Compliance Cancellation of Contract (Clause No.12 of Annexure-A)		

Bidder Signature		
Name of the signatory & Title	Name	Title
Bidder's Official seal		
Place & Date	Place	DD-MM-YYYY

# Annexure-I

## Engineering drawings

(attached separately)

## Annexure – II

### **Self-declaration by Bidder of a country sharing/not sharing land border with India**

[ON THE LETTER HEAD OF THE COMPANY]

Ref: 1) Our bid/offer No. .... dated .....

2) Bid for Fabrication of the parts for upgradation of existing cavity combiner

**Restrictions on procurement from Bidders from a country or countries, or class of countries under Rule 144(xi) of the General Financial Rules 2017.**

We have read the clause regarding restrictions on procurement from Bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:

- (a) *we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;*
- (b) *we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority and solemnly certify that we are not from such a country or, if from such country, we are registered with the Competent Authority (copy enclosed). We hereby certify that we fulfil all requirements in this regard and are eligible to be considered.”*

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any further changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

Signature

Bidder's stamp

Name:

Position:

Address:

Tel:

Fax:

## Annexure – III

(to be printed in letter head)

---

### **Self-Certification under preference to Make in India order**

#### **Certificate**

In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II) dated 04.06.2020 as amended from time to time and as applicable on the date of submission of tender/enquiry, we hereby certify that we M/s \_\_\_\_\_ are Class I local supplier/ Class II local supplier/Non-Local supplier and quoted item/service against ITER-India Enquiry/Tender No. .... Dated ..... has/have local content i.e., \_\_\_\_\_%. Details of location at which local value addition will be made as follows:

\_\_\_\_\_.

We also understand, false declarations will be in breach of the code of integrity under rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

Thanking You

\_\_\_\_\_

**Signature with date:**

**Name:**

**Designation:**

**Official Seal**

## Annexure-IV:

**Bidder's confirmation regarding submitted Price Bid:**

[ON THE LETTER HEAD OF THE COMPANY]

Sr. No.	Particulars	Confirmation Yes/No
1	Quoted price shall be in INR only.	Yes/No
2	<b>QUOTED PRICE SHALL NOT INCLUDE APPLICABLE TAXES AND DUTIES</b>	Yes/No
3	<b>GST IN % AS APPLICABLE (NOT INCLUDED IN QUOTED PRICE)</b>	<b>GST % TO SPECIFY</b>
4	HSN Code (To specify)	HSN Code to specify
5	Unit rate/s should be valid throughout the validity of Contract for addition/deletion purposes. The quoted price should not be subject to price escalation for whatsoever reasons. <b>The quoted price shall be firm, fixed and non-revisable during the validity/ extended validity of Purchase Order/Contract.</b>	Yes/No
6	The bid shall include all applicable charges (except taxes and duties) including safe delivery of the ordered Items/Systems at the specified delivery address	Yes/No
7	Each Party shall bear their own expenses for visiting to other Party's site concerning execution of the order/contract	Yes/No
8	Tender delivery period i.e. 90 days from the date of Purchase Order will apply	Yes/No
9	Payment terms – 100% payment will be released within 30 days from the date of Final acceptance of ordered Items by the Purchaser	Yes/No
10	Warranty – 01 year from the date of Final acceptance of ordered Items/service by the Purchaser	Yes/No
11	Bid Validity Period – 90 days from the date of bid opening	Yes/No

12	Is the bidder registered as Micro or Small Enterprise, If Yes, pl. mention Udyam Registration and to attach in the bid document	<b>Micro/Small Enterprise,</b>  <b>Udyam Registration No.</b> <hr/>
----	---------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------

Bidder Signature		
Name of the signatory & Title	Name	Title
Bidder's Official seal		
Place & Date	Place	DD-MM-YYYY

### Annexure-VI: Letter for Acceptance of Tender

*(This form should be printed on bidder's letter head duly signed, stamped and sent by the bidder along with of the Bid)*

**From:**

**Date:**

Name and address of Applicant Bidder  
 Name of Contact Person  
 Contact Number (Tel. no., mobile no., Fax no., E-mail)

**To:**

Sr. Officer (Purchase & Stores)  
 ITER-India, Institute for Plasma Research,  
 Block A, Sangath Skyz, Bhat-Motera Road, Koteswar,  
 Ahmedabad 380005,  
 Gujarat, INDIA Tel: + 91-79-2326 9656  
 Email: [purchase@iterindia.in](mailto:purchase@iterindia.in)

Subject : Acceptance of the Tender for Fabrication of the parts for upgradation of existing cavity combiner

Ref. : Tender No. I-I/ET/24016/24-25

Dear Sir/Madam,



1. I/ We have downloaded / obtained the tender document(s)
2. I / We hereby certify that I / we have read the entire tender documents i.e. Technical Specifications and Other Terms and Conditions of Tenders including Annexures I to VI of the tender, which form part of the tender agreement and I / we shall abide hereby by the scope of work / technical specifications/ terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.
4. In this regard, we would like to confirm the following **(Please ✓ against any one check box)**.

☐ I/ We hereby **unconditionally accept** entire tender documents i.e. Part-A of the tender including their Annexures-I to V.

**OR**

☐ We accept entire tender documents Part- A of the tender including their Annexures-I to V, **except following deviations.**



	<b>ITER-India</b> <b>(Institute For Plasma Research)</b>	
----------------------------------------------------------------------------------	-------------------------------------------------------------	------------------------------------------------------------------------------------

**List of deviations attached as an enclosure to this letter.**

5. I / We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
  
6. I / We certify that all information furnished by our Firm is true & correct and, in the event, that the information is found to be incorrect/untrue or found violated, then your department/ organization shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Signature

Bidder's stamp

Name:

Position:

**Note: If any deviations are proposed, these must be clearly indicated as a separate annexure to this Letter of Acceptance instead of merely enclosing bidder's printed conditions of Sale. Deviations, if any, shall be reflected in this letter of acceptance (or enclosure to this letter) only and not elsewhere in the bid, failing which, the Purchaser shall consider bidder's acceptance on entire tender document with no deviation.**