

**Specification for Tender No. IADD/GNS/2019/OPA/185661, due on 25/10/2019.**

**Date: 03/10/2019**

**To,**

**Subject: Minor fabrication and supply of WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter and Coaxial DC Block.**

Dear Sir,

Please let us have your competitive rate for **Minor fabrication and supply of WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter and Coaxial DC Block** as per following details:

1. The **WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter and Coaxial DC Block** must be fabricated as per drawing provided and material mentioned in encloser attached. The *ports, flanges* and *mitter length* should be aligned with high degree of precision. The component must be manufactured exactly as per the specifications given in the drawing.
2. The supplier shall prepare the detailed fabrication drawings and must submit the drawing to undersigned for scrutiny before starting the fabrication.
3. The material used to **Minor fabrication and supply of WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter and Coaxial DC Block** should be free from any internal voids or defects. Also the material should meet all the standard physical, mechanical, electrical and thermal properties as applicable. Vendor should provide ultrasonic test reports and chemical analysis report of Al 6061 and ETP copper material from govt. approved laboratories in order to ensure their purity and defect free material. Dimensional tolerance should be better than 10 micrometres in case of waveguide to coaxial adapter whereas 1 micrometre in Coaxial DC Block.
4. Supplier shall prepare a table showing his compliance statement against each & every point of the specification and submit it with the offer. The table shall clearly point out the expected deviations/ relaxations desired by the supplier. Alternatives, if any, shall be proposed by the supplier. Indenter may allow the relaxations based on its criticality. Necessary action will be taken if any undisclosed deviations are found on the later stages.
5. The manufacturer should preferably have previous experience in successfully fabricating of wave guide components for BARC or other DAE units.

**Rights and Privileges:**

Indenter reserves the right to inspect any machinery or material or equipment furnished or used by vendor or to reject any, which is found defective in workmanship, quality, and design or otherwise unsuitable for use which is not in accordance with the specification.

**Note: In case any further clarification is required, the bidders may contact the undersigned at phone no. 022-2559-3971.**

Your quotation duly filled in the prescribed format, addressed to "Head, IADD, Van-de-Graaff Bldg, BARC, Trombay, Mumbai – 400085" in a sealed envelope quoting tender number and due date, must reach on or before 25/10/2019 date by 3 PM. On top of envelop it must also be written that "kind attention to Gireesh Narayan Singh, IADD".

Gireesh N Singh  
IADD, BARC

**Inquiry**

**Enclosures:**

**Drawing**

**Technical Specification**

**Form of Quotation**

**Inquiry**

**Technical Specification for Tender No. IADD/GNS/2019/OPA/185661**

<b>Sr. No</b>	<b>Parameter</b>	<b>Description</b>
	<b>General:</b>	
1.	Device name	<b>Minor fabrication and supply of WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter and Coaxial DC Block.</b>
2.	To be used in	High Power RF
3.	Purpose	To use in RF Measurement.
4.	<b>Details:</b>	
	WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter.	As per attached drawing No. 1,2,3 and 4.
	Coaxial DC block	As per attached Drawing No. 5
	<b>Material of construction:</b>	
	WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter.	Al 6061
	<b>Coaxial DC Block</b>	ETP Copper (inner and outer conductor) and End flanges (EIA 3 1/8") by Brass
5.	<b>Surface Finish:</b>	Better than 1 micron.
	Internal Surface	Degreased, No sharp corners
	External Surface	Bright Finish.

**Format of Quotation for Tender No. IADD/GNS/2019/OPA/185661**

<b>Items</b>	<b>Quantity</b>	<b>Cost/Remark</b>
<b>WR 2300 Half Height Wave Guide to 6 1/8" coaxial adapter.</b>	04 Nos.	
<b>Co axial DC Block.</b>	02Nos.	
Taxes (GST)		
Delivery Charges, if any		
Delivery Schedule		
Documents Required, if Any		
Validity		
<b>Total Cost</b>		
Remarks		

GSTIN No.

PAN No.

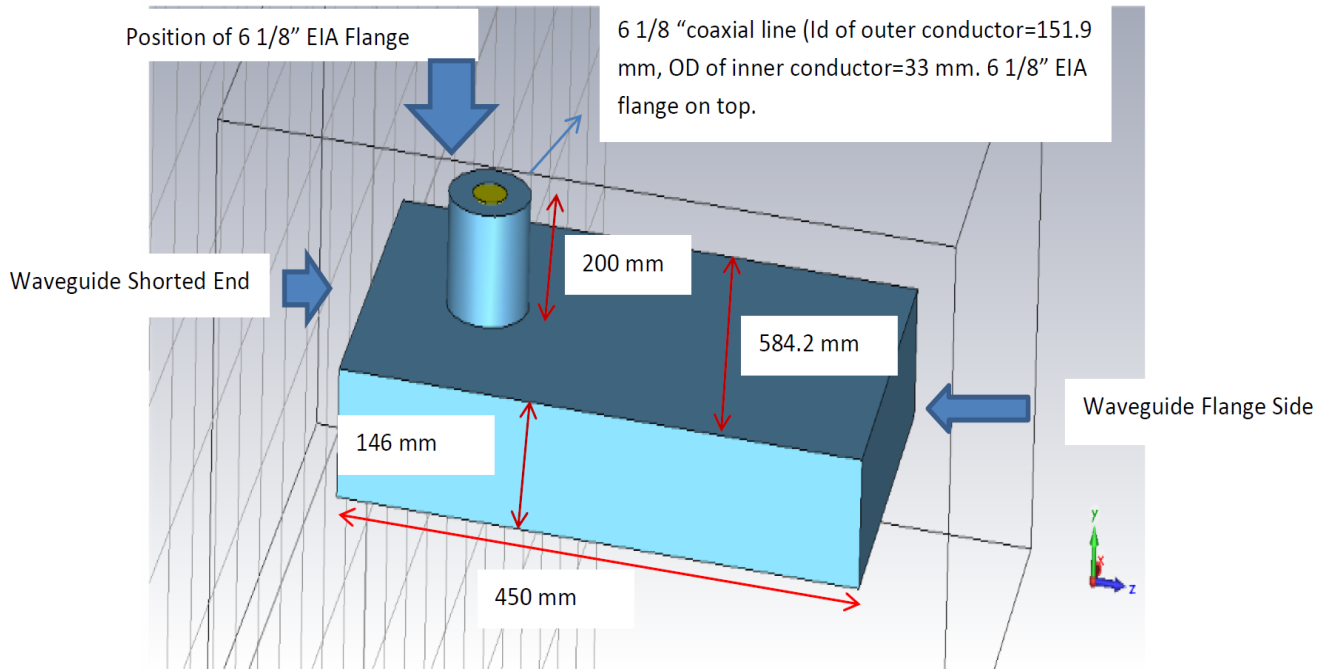
**(Vendors Name)**  
**Authorised Signatories & Company Seal**

**Note: The quotation must be sent by speed post only**

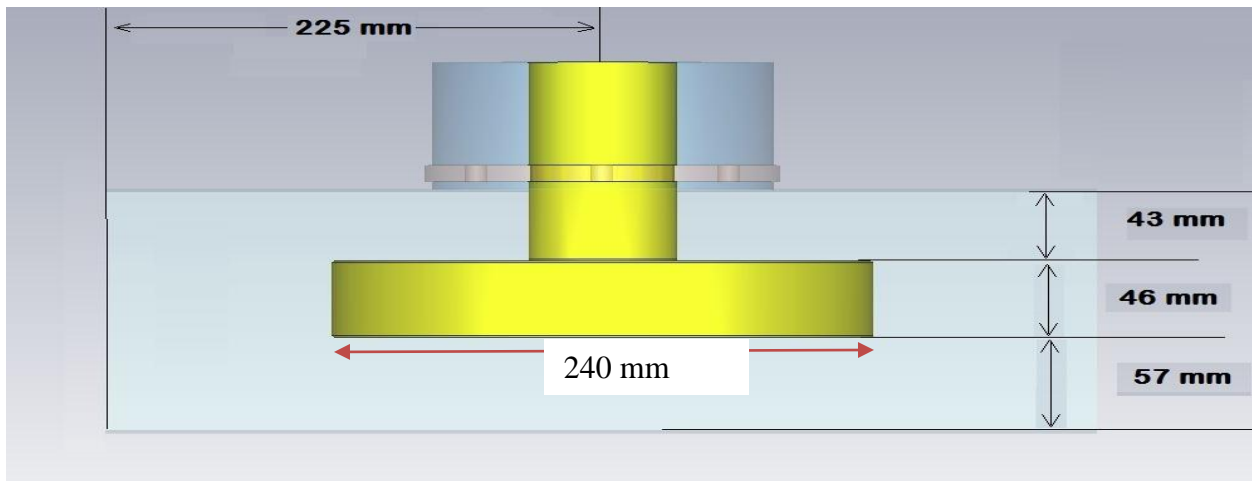
**Technical Specification**

## Drawings of Quotation No. IADD/GNS/2019/OPA/185661

This is WR 2300 Half Height to 6 1/8" coaxial adapter. There will be a WR 2300 Half Height Waveguide Flange one end where as other end of wave guide will be shorted and 6 1/8" Coaxial line will have 6 1/8" EIA Flange (made of Brass). Material of adapter is Aluminum. Details are given below.

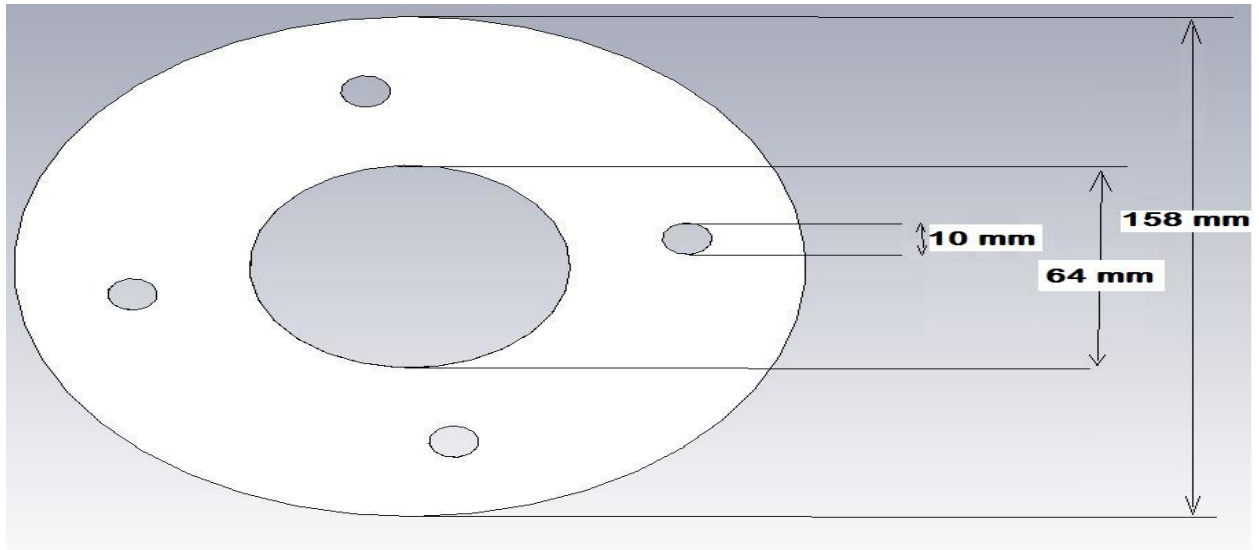


*Fig. 1 Details of WR2300 to 6 1/8" Adapter*



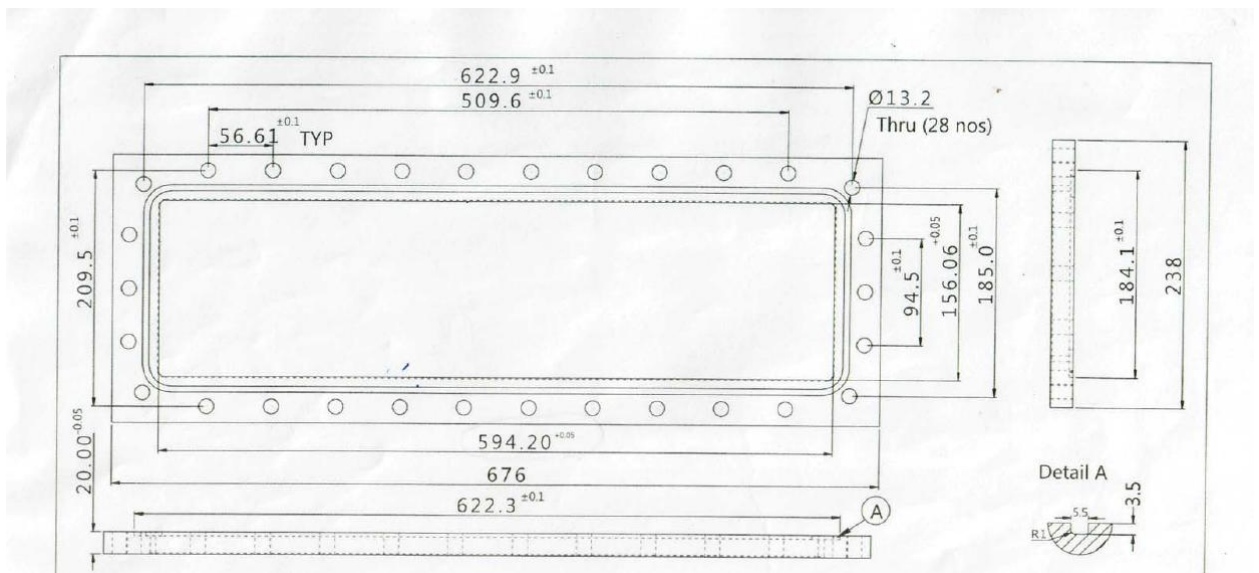
*Fig. 2. Details inner conductor of WR2300 to 6 1/8" Adapter.*

### Technical Specification



**Thickness of the teflon disc = 10 mm**  
**PCD of the through holes ( 4 nos ) = 112 mm**

*Fig. 3. Details Teflon of inner conductor of WR2300 to 6 1/8" Adapter.*



*Fig. 4. Details of flange of WR2300 waveguide.*

This is the drawing of Coaxial DC block. There should be EIA 3 1/ 8” Flange (made of Brass) at both end. There should be 1 micrometer tolerance in dimension given in below drawings.

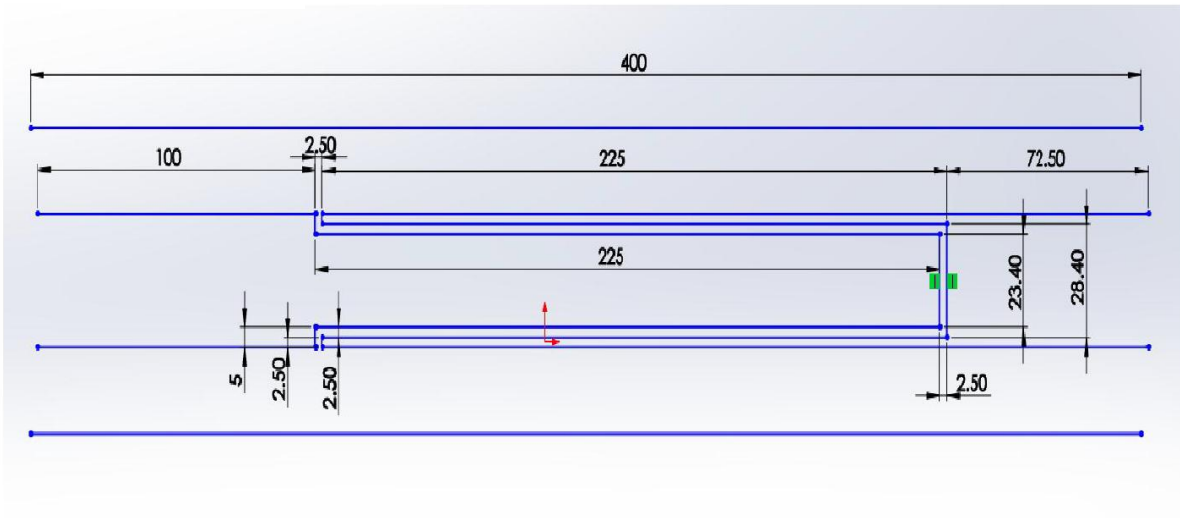
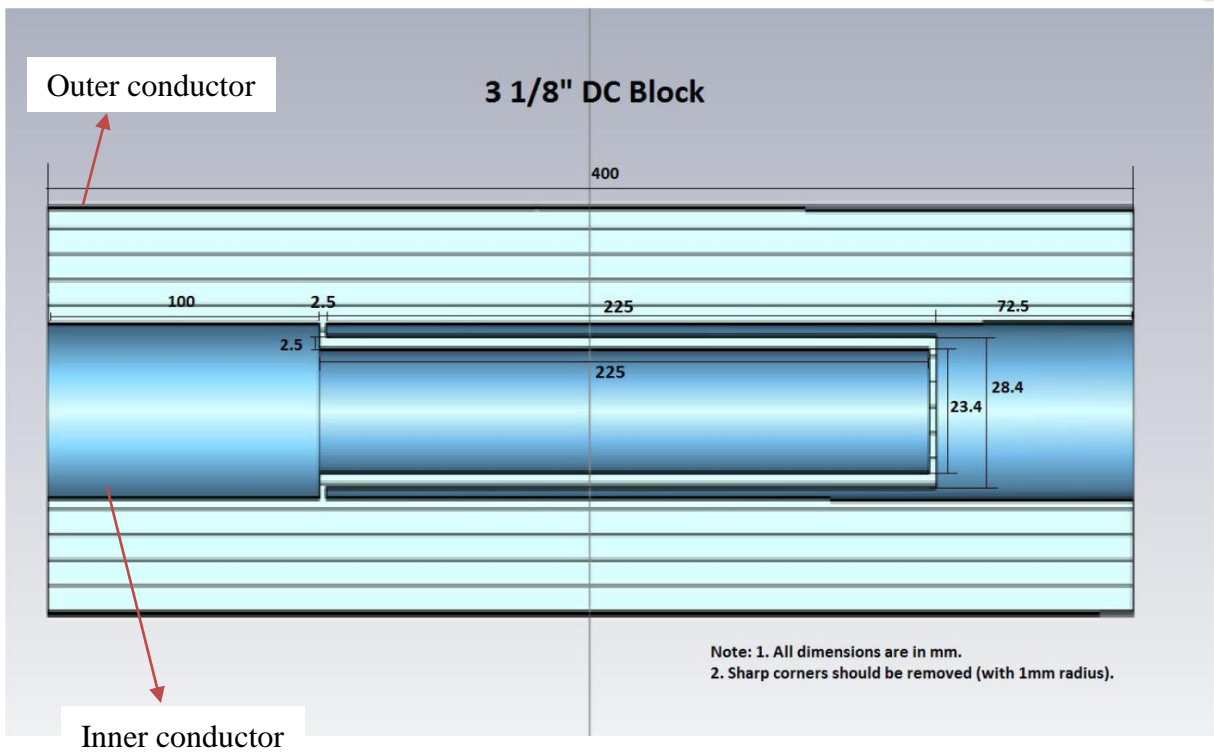


Fig. 5. Drawing of Co axial DC block.