



Government of India  
Bhabha Atomic Research Centre  
Electromagnetic Applications & Instrumentation Division



Tender No. : EmA&ID/JI/2019/OPA/158717

Date: 20.08.2019

Sub: Fabrication, testing and supply of S- Band power amplifier as per Annex-A

Dear Sir/Madam,

1. Quotations are invited for the *execution of subject work*.
2. Taxes and Excise Duties shall be quoted separately. Form AF / H whichever is applicable shall be provided, if required.
3. The suppliers are shall submit the cost for Design, fabrication, assembly and testing. All necessary tools, instruments have to be arranged by the supplier.
4. The quotation must reach the undersigned on or before **12<sup>th</sup> Sep, 2019** and must be sent in a sealed envelope super-scribed with the *reference number & the due date* given above.
5. The quotations must reach us on or before the aforesaid date by India post (by speed post or ordinary post) only.
6. The address on the envelop should read:  
The Head,  
Electromagnetic Applications Section,  
Electromagnetic Applications & Instrumentation Division  
RCnD Bldg., North Site,  
B.A.R.C, Trombay,  
Mumbai - 400 085.  
(Attn: Shri. Janvin Itteera)
7. The finished components with the test certificates as mentioned in the enclosures shall be delivered by the manufacturer after the award of the contract at BARC, Trombay, Mumbai - 400 085.
8. Delivery, packing & forwarding charges, if any, must be clearly mentioned in the offer.
9. Drawings / Sketches (if any) must be returned along with the offer
10. Quotation must indicate the PAN and GSTIN no of the vendor. Minimum validity of 60 days is preferred.
11. The quotation has to be duly signed by *authorized person with company seal*. *Unsigned offers shall be treated as invalid*.
12. For any technical clarifications, Please contact us vide email: [janvin@barc.gov.in](mailto:janvin@barc.gov.in); Tel: +912225591492/6437

Encl.: Annex-A

(SD/-)  
Scientific Officer(E), B.A.R.C  
For & on Behalf of the President of India  
(The Purchaser)

Annex-A: Fabrication, testing and supply of Solid State Power amplifier

1) Technical Specification:

S. No.	SPECIFICATION	TYPICAL	UNIT
1.	Frequency range	2856±20	MHz
2.	Temperature stability	±3	ppm
3.	Frequency Stability	±3	ppm
4.	Aging rate per year	±3	ppm
5.	Peak Power output	170	Watt
6.	Pulse width	10	microsec
7.	Pulse Reptition Frequency	100-500	Hz
8.	Gain	≥ 52.3	dB
9.	VSWR	1.8	
10.	Output Power variation	1.5-2	dB
11	Non-flatness of Pulse top	3%	
12	Pulse rise Time	30	ns
13	Pulse fall time	40	ns
14	Duty cycle maximum	0.5%	
15	Cooling	Forced air cooling only	
16	Output connector	N-Type connector	
17	Input Connector	N-Type/SMA connector	

2) Warranty: 1 Year from the date of acceptance

3) No Post Supply Inspection is permitted at purchaser premises.

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