

Government of India  
Bhabha Atomic Research Center  
Energetics & Electromagnetics Division

Reference: BARCV/PP&EMD/2021-22/R&D-44/WO/SM/50

Date: 21/09/2021

Name of Party:

**SUB: Fabrication, supply and installation of S-band parabolic reflector antenna (Details of specifications attached)**

Dear Sir,

1. Quotations are invited for the minor fabrication job, as per the enclosed sketches
2. Bidder shall quotes for fabrication of these components with materials.
3. Taxes shall be quoted separately.
4. The quotation must reach the Head, Pulsed Power & Electromagnetics Division by date **01-10-2021 (4:00PM)** and must be sent in a sealed, printed envelope superscripted with reference number and the due date given above.
5. The address of the envelop should read –

Dr. Archana Sharma,  
Head, Pulsed Power and Electromagnetics Division (PP&EMD)  
PEB-1, Gandivanipalem,  
Dossuru Panchayat, Atchutapuram Mandal,  
Bhabha Atomic Research Centre (BARC),  
Visakhapatnam-531011  
(Attention: Dr. Rishi Verma/Shobhna Mishra)  
Contact No. 0891-2832013/2022(O)

1. The fabrication work shall be subjected to inspection by our Engineer. The finished component shall not be dispatched prior to approval of our engineer at bidders premises. Necessary inspection facilities should be provided to our engineer during fabrication at bidders premises.
2. The bidder shall deliver the finished components after approval by our engineer within 4/6 weeks from the date of firm work order issued to the bidder. The finished components along with left over material shall be delivered by the bidder at the address mention in point no. 5.
3. Head, PP&EMD reserves the rights to accept/ reject any or all quotations without assigning any reasons.
4. Delivery charges if any, must be clearly mentioned within the offer.
5. Quotation must also indicate the validity of offer starting from the due date.
6. Drawing / sketches must be returned along with the offer.
7. Quotation is to be in printed letter-head / quotation format only. Quotation received in computer-generated forms will be considered as invalid and rejected.
8. Quotation should consists of Sales Tax registration number (Registered with local ST / CST authority), GSTIN No., PAN number of the firm, services tax registration number etc.
9. Claim preferred by the firms are also to be in printed INVOICE format consisting of the above registration numbers.
10. No Free issue material will be given.

  
21-9-2021

(Dr. Archana Sharma)  
Head, PP&EMD

BARC, Visakhapatnam - 531011

**डॉ. (श्रीमती) अर्चना शर्मा / ARCHANA SHARMA**

निदेशक / Director

किरणपुंज प्रौद्योगिकी विकास वर्ग

Beam Technology Development Group

भारत सरकार / Government of India,

भा.प.अ. केंद्र / B. A. R.C.

टॉम्बे, मुंबई / Trombay, Mumbai - 400 085.

**Specification: Fabrication, supply and installation of S-band parabolic reflector antenna (Details of specifications attached).**

**Reference:** BARCV/PP&EMD/2021-22/R&D-44/WO/SM/50

Reflector diameter	:	3 meter
Reflector Type	:	Prime focus, Parabolic
Reflector material	:	Solid Aluminum (HE 30)
F/D Ratio	:	1
Gain @ 3GHz	:	better than 36dB
Aperture efficiency	:	better than 60%
3dB Beam width	:	2.33 (typ.)
Pedestal pole height	:	2.5 meter (adjustable range $\pm 30$ cm)
Aluminum reflector sheet thickness	:	~2mm (typical)
Reflector surface finish	:	<50 $\mu$ m
Dimensional accuracy	:	must comply to IT10 standards
Pedestal Pole Material/ Diameter	:	Galvanized Steel/ 100mm (minimum)
Wind Speeds	:	100 km/hr (operational) 200 km/hr (survival)

**Quantity: 01 No.**

**NOTE:**

The scope of work must be completed within 04-06 weeks of receiving the order.

**Any mismatch encountered under any of the above specification provided will cause rejection of the item and order. Also the following points must be taken care of, or else item will not be accepted.**

- 1) Feed to parabolic reflector is pyramidal horn antenna and details of the same will be shared at the time of issuing order.
- 2) Necessary attachment or arrangement for prime focus alignment of reflector antenna to pyramidal horn antenna to be supplied by the fabricator.
- 3) Installation and testing of parabolic reflector antenna at BARCF, Visakhapatnam site is in scope of the fabricator
- 4) All necessary nuts-bolts, hinges etc. required for integration of assembly at user site is within scope of supply of fabricator
- 5) Fabricator is encouraged to hold prior discussion with the indenter for any clarifications or suggestions.
- 6) Pre-Dispatch inspection will be done by BARC representative.
- 7) Minor modifications must be incorporated by the party without extra cost.
- 8) The items have to be supplied **at Bhabha Atomic Research Centre (BARC), Gandivanipallem village, Dossuru Panchayat, Atchupatpuram Mandal, Visakhapatnam- 531011** ensuring proper packaging before dispatch.