



Government of India  
BHABHA ATOMIC RESEARCH CENTRE  
**ASTROPHYSICAL SCIENCES DIVISION**  
GOALS, Oriya, Mount Abu , Rajasthan-307501

Ref: No. BARC/ApSD/GOALS/Abu/2022/71

10-05-2022

### Tender Enquiry

**Sub: Invitation of sealed quotations for re-aluminizing &SiO<sub>2</sub> coating of TACTIC telescope mirrors and safe transportation of mirrors from GOALS, BARC, Oriya, Mount Abu, Rajasthan and back.**

For and on behalf of President of India, the undersigned invites sealed quotation from Private agencies for Re-aluminizing and SiO<sub>2</sub> coating of TACTIC telescope mirrors (60 cm diameter, 25-39 mm thickness) and safe transportation from GOALS, BARC, Oriya, Mount Abu, Rajasthan and back.

The Scope of work and other Terms and Conditions of the work are given in the enclosed Annexure-I

The sealed quotation complete in all respects should be submitted in Annexure-II so as to reach the Officer Incharge (OIC), GOALS. Tender documents along with terms and conditions are (Annexure-I) for award of contract will be available with Officer Incharge (OIC), GOALS, Mount Abu, Rajasthan from 15.05.2022 on all working days and are to be collected in person. Tender documents can also be downloaded from BARC website [www.barc.gov.in/tenders](http://www.barc.gov.in/tenders). The envelope containing the tender should clearly indicate the reference number of this tender enquiry and due date for opening of the tender. The contractor should quote the rates clearly both in figures as well as in words. If any corrections in the rates tendered have to be carried out, the same should be duly signed with date by the contractor.

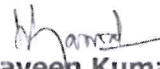
Display of Tender document on BARC website viz. <a href="http://www.barc.gov.in/tendersand saleof tender">http://www.barc.gov.in/tendersand saleof tender</a>	:	<b>20.5.2022</b>
Due date and time for submission of Tender	:	<b>31.05.2022 by 13.00 hrs</b>
Date & Time of opening of tenders	:	<b>07.06.2022by 14.30 hrs.</b>
Estimated Cost	:	<b>₹2500000.00</b>
Cost of Tender Document	:	<b>Free</b>
Earnest Money Deposit (EMD)	:	<b>2% of the quoted cost (by Demand Draft ) in favor of "Pay &amp; Accounts Officer", BARC</b>

**Note : Mirrors should be transported in a special vehicle , safely packed and insured during to and fro shipment.**

The following documents may kindly be enclosed along with tender: -

1. Attested copies of ITR for last 2 years

The undersigned reserves the right to reject any or all the quotations received without assigning any reason whatsoever.

  
**( Naveen Kumar )**  
**Officer Incharge, GOALS, ApSD**  
**For and on behalf of president of India**

नवीन कुमार/Naveen Kumar  
 प्रभारी अधिकारी/ Officer in-charge  
 गु.ख.भौ.वि.वे./ GOALS  
 भा.प.अ.के., आवू पर्वत/ BARC, Mt. Abu

**SCOPE OF WORK****TENDER NOTICE NO: BARC/ApSD/GOALS/Abu/2022/71****10-05-2022**

The work comprises removing of earlier coating, cleaning , re-coating with pure Aluminum and protective layer of SiO<sub>2</sub> at a high vacuum.

**TECHNICAL SPECIFICATIONS**

1. Aluminum for aluminizing 99.999% pure.
2. SiO<sub>2</sub> thickness (80 ±20) nm.
3. Mean reflectivity after aluminizing >85% (300-700nm). Spectral reflection measurements to be demonstrated by vendor.
4. Spot size < 5mm (2f method). Test setup to be provided by the vendor.
5. Aluminum coating (150±20) nm thick, deposited at a rate of between 3 and 8 nm per second.
6. The final vacuum needed for deposition in the ~10<sup>-5</sup>Torr range
7. Prior to loading the glass into the aluminizing chamber, the glass mirrorsto be wiped with isopropyl alcohol (99% electronic grade)

**GENERAL SPECIFICATIONS**

1. Whereas the vendor has to bear for packing, safe transportation and loading/ unloading of mirrors at GOALS Mt.Abu, mirrors are to be transported safely with insurance.
2. Quantity of mirrors will be 40 Nos., diameter of each mirror is ~60 cm and thickness varies from (25– 39) mm.
3. Prior inspection of the vendor facilities will be conducted to ascertain the technical suitability (availability of scientific infrastructure).
4. Sub-contracting of the tender is not permissible.
5. Experience of similar work undertaken for any Government department /University/Research Institution is an essential requirement.

## ANNEXUREIII

**TENDER NOTICE NO: BARC/ ApSD/GOALS/ABU/2022/71****10-05-2022**

Sr. No.	Description	Total Amount Per Month (Rs.)
1.	Cleaning, Re-aluminizing with pure Aluminum 99.999% on 60 cm dia. TACTIC mirrors.	
2.	Protective coating of Silicon dioxide on 60 cm dia. TACTIC mirrors.	
3	Compliance to SNos 3-7 (Annexure I)	
4.	Safe Packing of all the mirrors with polythene and butter paper. Safe Transportation of mirrors from Mt Abu and back with loading/unloading and insurance.	
	<b>Total:</b>	

Amount in words: (Rupees \_\_\_\_\_  
 \_\_\_\_\_ only)

Taxes if any: (With details) \_\_\_\_\_

Grand Total including taxes: \_\_\_\_\_  
 \_\_\_\_\_

**Signature of Contractor with Seal**

**Date**

**Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_  
 \_\_\_\_\_

**GST No.**

**No.** \_\_\_\_\_

**PAN No.**

**Tel:**