



Government of India
Bhabha Atomic Research Centre
Technical Physics Division

Ref: EmA&ID/LMRMSS/SC/2019/65841

Date 12/04/2019

Sub: **Minor Fabrication: Invitation for Quotation.**

Fabrication of Quarter Wave Plate (6nos), Half Wave Plate (3nos) and Optical Beam Dumper (4nos) as per specification

Dear Sir,

1. Quotations are invited for the minor fabrication job of Fabrication of Quarter Wave Plate(6nos) , Half Wave Plate (3nos) and Optical Beam Dumper (4nos) as per specification
2. Bidder shall quote for fabrication of these assemblies/subsystems as per the enclosed drawings and specifications **with all required material, hardware and components.**
3. Taxes, Excise Duties, other charges, if any, shall be quoted separately.
4. The quotation must reach **Head, Electromagnetic Application and Instrumentation Division, BARC** by **01/05/2018** and must be sent in a sealed envelope super scribed with thereference **number & the due date given above.**
5. The address on the envelope should read: **Head, Electromagnetic Application and Instrumentation Division, Physics Group, BARC, Trombay, Mumbai - 400 085.**
6. The bidder shall have to take an insurance policy against any material issued to him by the purchaser.
7. The fabrication work shall be subject to inspection by our engineers at bidders work Place. Necessary inspection facility should be provided to our engineers during fabrication at bidders premises.
8. The bidder shall deliver the finished components after approval by our engineers within **12 weeks** from the date the firm work order is issued to the bidder. The finished components and the scrap from the free issue material shall be delivered by the bidder at **Room # 48, BARCIT, South Site, BARC, Trombay, Mumbai-400085.**
9. Head, EmA&ID, BARC reserves the right to accept / reject any or all quotations without Assigning any reason.
10. Incomplete offer / offer received after the due date shall not be considered.
11. Quotations should be preferably neatly typed and corrections are not acceptable.
12. Quotation received in computer-generated form shall not be acceptable. Quotation must

Besubmitted in printed letterhead, mentioning clearly ST/VAT registration No. , PAN No. &Service Tax Registration No. Submission of challan and Invoice shall also comply the same, incase, work order is placed.

SachinChavhan, SA/D
LMRMSS/EmA&ID

Enclosures:

1. Specification of Quarter Wave Plate, Half Wave Plate and Optical Beam Dumper

a. CONFIDENTIALITY:

No party shall disclose any information to any third party concerning the matters under this contract generally. In particular, any information identified as “proprietary” in nature by the disclosing party shall be kept strictly confidential by the receiving party and shall not be disclosed to any third party without the prior written consent of the original disclosing party. This clause shall apply to the sub-contractors, consultants, advisers or the employees engaged by a party with equal force.

b. **“Restricted information” categories under section 18 of the Atomic Energy act, 1962 and “Official Secrets” under section 5 of the Official secret act, 1923:** Any contravention of the above-mentioned provision by any contractor, sub-contractor, consultant, adviser or the employees of a contractor will invite penal consequences under the aforesaid legislation.

c. **Prohibition against use of BARC’s name without permission for publicity purposes:** The contractor, sub-contractor, consultant, adviser or the employees of a contractor shall not use BARC’s name for any publicity purpose through any public media like Press, Radio, T.V. or Internet without the prior written approval of BARC.

GENERAL SPECIFICATIONS

1.0 **Free issue material ---NIL---**

1.1 The free issue supply materials issued by the purchaser to the fabricator shall be covered by insurance policy taken by the fabricator at his own cost for its full value.

1.2 The insurance policy shall voucher losses or damages to the purchaser’s material due to fire, riot, strikes, theft, civil commotion etc. or any other causes.

1.3 The insurance policy shall be valid till the date of actual delivery of the components to the purchaser.

1.4 The purchaser shall be named as the beneficiary.

1.5 Fabricator shall return the balance material such as scraps, outpits, etc. after the fabrication to the purchaser.

1.6 Free issue material is ---NIL--- and shall be issued to fabricator / bidder at ---NIL---

2.0 **Quality surveillance, inspection and inspection report**

2.1 All work covered by this specification shall be subject to quality surveillance by the purchaser or his authorized representative for which purpose the fabricator shall allow access at all reasonable times during manufacture to

2.2 The premises in which the work is being carried out.

2.3 The drawings and / or tooling involved.

2.4 Gauges, instruments, etc. required inspecting the work.

2.5 The fabricator shall submit three copies of inspection reports to the purchaser the material test certificate for his approval.

2.6 Inspection and tests shall be carried out by the fabricator as per the requirements detailed in the drawings and these specifications.

- 2.7 Components found unsatisfactory as to workmanship or material shall be removed by fabricator and replaced by components which are satisfactory.
- 2.8 The fabricator shall use materials as specified by the purchaser and submit to the purchaser, the material test certificate for his approval.
- 2.9 The finished components shall be dispatched prior to approval by our engineer at bidder's works.
- 3.0 **Delivery**
- 3.1 The bidder shall deliver the finished components after approval by our engineer within **12 weeks** from the date of the firm purchase order is issued to the bidder.
- 4.0 **Sub-contract**
- 4.1 The fabricator shall not sub-contract any or all the work without written consent from the purchaser. The fabricator shall be responsible to the purchaser for all the work of the sub-contractor is allowed by the purchaser.
- 5.0 **GST exemption**
- 5.1 GST exemption certificates will be issued, wherever necessary.
- 5.2 Income Tax @ 2% , surcharge on IT as applicable and Education Cess @3% (on IT & SC) will be deducted from your bill
- 1.0 Payment:** Full Payment will be made after satisfactory completion of the work and production of Bill and Advanced Stamped Receipt along with guarantee/warranty certificate.

Technical Specification

1. Zero Order Quarter Wave Plate @ 1392nm (Quantity -6 no's)

- Design Wavelength λ : 1392nm
- Clear Aperture : 8mm
- Mounted Diameter : 12.7mm
- Unmounted Diameter : 10mm
- Unmounted Thickness : 1mm
- AR Coating : Central wavelength 1392nm
- Reflectance: (in AR Coating Range) : <0.25%
- Beam Deviation : 3 arcsec
- Damage Threshold : 7J/cm²
- Material : Crystalline Quartz
- Surface Quality : 20/10 S/D
- Retardance Accuracy : $\lambda/300$
- Transmitted Wavefront Error : $< \lambda/10$

2. Zero Order Half Wave Plate @ 1392nm (Quantity -3 no's)

- Design Wavelength λ : 1392nm
- Clear Aperture : 8mm
- Mounted Diameter : 12.7mm
- Unmounted Diameter : 10mm
- Unmounted Thickness : 1mm
- AR Coating : Central wavelength 1392nm
- Reflectance : (in AR Coating Range) <0.25%
- Beam Deviation : 3 arcsec
- Damage Threshold : 7J/cm²
- Material : Crystalline Quartz
- Surface Quality : 20/10 S/D
- Retardance Accuracy : $\lambda/300$

- Transmitted Wavefront Error : $< \lambda/10$

3. Optical Beam Dumper (Quantity -4 no's)

- Wavelength range : At least $1\mu\text{m}$ to $\geq 25\mu\text{m}$
- Beam type : CW and Pulsed laser
- Acceptance aperture : 20mm
- Maximum handling power : $\geq 4\text{W}$ (Optical)
- Maximum energy handling : $\geq 0.2\text{J}$ (20Hz)
- Cooling type : Air cooled
- Outer Diameter : $\leq 30\text{mm}$
- Mounting : M6 Post mount