



**DEPARTMENT OF PHYSICS, IIT(BHU), VARANASI  
QUOTATION ENQUIRY**

**Ref: IIT (BHU)/RKS/QTN/2021-22/47**

**Due Date: 13.08.2021**  
(Last date of quotation receiving)

**Date: 23.07.2021**  
(Date of quotation enquiry)

**Dear Sir,**

Please submit your lowest quotation for supplying the under mentioned items. Quotation in **duplicate** must reach us before the date marked above and should contain the following information:

1. Full specification and make of the item offered and its rate F.O.R. Varanasi/CIF New Delhi.
2. Sales tax at concessional rate as applicable to educational institution.
3. Your VAT/CST registration number, PAN and TIN number.
4. Conditions of supply and terms of payment.
5. If you are a manufacture of the item or if you have proprietary right over it, please mention it in the quotation and provide a certificate.
6. Please mention your agency commission in Indian Rs., if applicable (in case of imported items).
7. Please give undertaking as per annexure-I-B

Quotation must be sent in a **sealed envelope** with word “**QUOTATION**”, our reference number, and due date as given above, clearly marked over it.


Sl. No.	Name of Items	Description/Technical Specification	Quantity (Approx.)
1.	50:50, 1'' Polarizing cube Beamsplitter	Wavelength Range 400-700 nm Size 25.4 x 25.4 x 25.4 mm Shape Cube Material Grade A N-BK7 Coating Type Laser line polarizing Coating Code PC.4 Antireflection Coating Multilayer broadband dielectric Angle of Incidence $0^\circ \pm 3^\circ$ Orientation to avoid damage, beam should enter prism marked with a dot Reflection $R_s > 99.8\%$ Reflected Beam Deviation $90^\circ \pm 5$ arc min Transmission $T_p > 95\%$ Transmitted Beam Deviation $\leq 5$ arc min Extinction Ratio $T_p/T_s > 1,000:1$ Wavefront Distortion $\leq \lambda/4$ at 632.8 nm over the clear aperture Surface Quality 20-10 scratch-dig Surface Flatness $\leq \lambda/4$ at 632.8 nm Damage Threshold $2000 \text{ W/cm}^2 \text{ CW}$ , $1 \text{ J/cm}^2$ with a 10 nsec pulse @ 532 nm, typical Clear Aperture $> 80\%$ of central dimension Size Tolerance $\pm 0.254$ mm Operating Temperature Range $-50$ to $90^\circ\text{C}$ Durability MIL-C-675C, moderate abrasion million cycles	04

2.	50:50, 1" Non-Polarizing cube Beamsplitter	<p>Wavelength Range 400-700 nm  Size 12.7 x 12.7 x 12.7 mm  Shape Cube  Material Grade A N-BK7  Coating Type Broadband metal-dielectric non-polarizing  Coating Code MB.1  Antireflection Coating Multilayer broadband dielectric  Angle of Incidence <math>0^{\circ} \pm 5^{\circ}</math>  Orientation To avoid damage, beam should enter prism marked with a dot  Reflection <math>R_{s,p} = 45 \pm 5\%</math> average, <math>35\% \leq R_{s,p} \leq 55\%</math>  Reflected Beam Deviation <math>90^{\circ} \pm 5</math> arc min  Transmission <math>T_{s,p} = 45 \pm 5\%</math> average, <math>35\% \leq T_{s,p} \leq 55\%</math>  Transmitted Beam Deviation <math>\leq 5</math> arc min  Polarization S- and P-polarization components matched to within 10%, <math> T_s - T_p  \leq 10\%</math>, <math> R_s - R_p  \leq 10\%</math>  Wavefront Distortion <math>\leq \lambda/4</math> at 632.8 nm over the clear aperture  Surface Quality 40-20 scratch-dig  Surface Flatness <math>\leq \lambda/4</math> at 632.8 nm  Damage Threshold 100 W/cm<sup>2</sup> CW, 0.1 J/cm<sup>2</sup> with 10 nsec pulses, typical  Clear Aperture &gt;80% of central dimension  Size Tolerance <math>\pm 0.254</math> mm  Operating Temperature Range 50 to 90°C  Durability MIL-C-675C</p>	04
3.	Ø1" Broadband Dielectric Mirror,	<p>Shape: Circular  Mirror Diameter: 1inch  Wavelength range: 400-700 nm  Substrate Material: Fused silica  Reflectance <math>R_{avg} &gt; 99\%</math> for S- and P- polarization angles of incidence from 0 to 45 degree  Surface flatness: Better than <math>\lambda/8</math>  Surface quality (Scratch and Dig): 10-5</p>	05
4.	Ø1" Zero-Order Half-Wave Plate SM1-Threaded Mount	<p>Material: crystalline quartz  Retardance Accuracy: <math>&lt; \lambda/300 - \lambda/500</math>  Beam deviation: <math>&lt; 10-12</math> arcsec  Surface Quality: 25-10 scratch-Dig  Reflectance: <math>&lt; 0.25\%</math>  AR coated  Clear Aperture: 22-23 mm  Wavelength: 633 nm</p>	01
5.	Ø1" Zero-Order Quarter-Wave Plate SM1-Threaded Mount	<p>Material: crystalline quartz  Retardance Accuracy: <math>&lt; \lambda/300 - \lambda/500</math>  Beam deviation: <math>&lt; 10-12</math> arcsec  Surface Quality: 25-10 scratch-Dig  Reflectance: <math>&lt; 0.25\%</math>  AR coated  Clear Aperture: 22-23 mm  Wavelength: 633 nm</p>	02
6.	Ø1" Linear Polarizer	<p>Material: N-BK7  Wavelength range: 400-700 nm  Acceptance angle: 20-30 Dig</p>	01

		AR Coated range: 350-700 nm Polarizing Material: Dichroic film Clear Aperture: > 85%-90% of the diameter Surface Quality: 60-40 Scratch-Dig	
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**N.B.:** Other terms & conditions pertaining to item mentioned above shall be mentioned below:

The Sealed quotations will be opened on .....at .....in the office of  
 .....(This is mandatory in case of e-publishing).

  
**Principal Investigator**  
**Dr. Rakesh Kumar Singh**  
 Associate Professor  
 Department of Physics  
 Indian Institute of Technology  
 (Banaras Hindu University), Varanasi-221005

INDIAN INSTITUTE OF TECHNOLOGY (BHU) VARANASI

TO BE RETURNED

Following proforma should be filled in and duly signed by the firm and sent alongwith the quotation. (Please refer to the detailed instructions/notes before filling this proforma).

- 1. Validity of the offer : .....
2. Approximate Delivery Period : .....
3. (a) Whether rates have been quoted F.O.R. site and covers packing forwarding and insurance charges. : YES / NO
(b) If not, please mention the same : .....
4. (a) Whether the prices are inclusive of Sales Tax and other taxes. : YES / NO
(b) If not, kindly specify the amount / rate : .....
5. If the Sales Tax is charged extra, declaration for charging Sales Tax correctly attached. : YES / NO
6. (a) Whether supply will be made directly or through any Local / Regional / Authorized Dealer / Stockist :Directly/Stockist/Authorized Dealer
(b) If through a Stockist / Dealer: -
(i) Name and full address of the Party : .....
(ii) Whether the order to be placed with the : Principal / Stockist / Dealer
(iii) Who will raise the bill : Principal / Stockist / Dealer
(iv) Cheques will be drawn in favour of : Principal / Stockist / Dealer
(v) Whether any Delivery, Packing and Forwarding YES / NO

Charges will be payable to local Stockist/Dealer:(Please specify the amount/percentage etc, if any)

- 7. Our terms of payment (Please indicate your preference by a (✓) mark). Please note that no other payment terms are likely to be accepted.

(a) For Local Firms or if the bills are raised by the Local Dealers.

- (i) 100% Payment on bill basis : .....

OR

- (ii) 100% payment against Proforma Invoice after receipt of materials in good condition, installation and satisfactory report.

(Only under exceptional cases)

**(b) If the bills are raised by outstation Firms**

(i) 100% Payment on bill basis : .....

**OR**

(ii) 100% payment against Proforma Invoice after receipt of materials in good condition, installation

and satisfactory report : .....

**OR**

(iii) D.G.S. & D. Terms of Payment for D.G.S. & D Rate Contract items

: .....

**OR**

(iv) 75% against Proforma Invoice (at site) or documents through Bank and 25% after receipt of materials in good condition, installation and satisfactory report.

: .....

**OR**

(v) 90% payment against Proforma Invoice (at site) or documents through bank and 10% after receipt of materials in good condition, installation and satisfactory report (Only under special Circumstances).

: .....

1. Whether any Excise Duty is payable on the items. : YES / NO  
If yes, indicate the amount / percentage. : .....%

2. Whether any installation charges are payable extra. : YES / NO  
If yes, amount to be specified. : .....

3. Whether any discount for educational institution :  
offered on the printed price list of the manufacturer. : YES / NO  
Please mention the amount / percentage. : .....

4. Whether the product is on DGS &D/D.I. Rate contract.  
If yes, please enclose a photocopy of the same. : YES / NO

5. Whether the product bears I.S.I. Mark. YES / NO  
If yes, please mention the I.S.I. License no. : .....

6. (a) Whether the firm is Sales Tax payer. : YES / NO  
If yes, please mention the Sales Tax Numbers. : .....

(b) Whether the Local Dealer(s) is / are Sales Tax payer(s) : YES / NO

If yes, please mention the Sales Tax numbers of each : .....

7. Whether printed / authenticated price list of the Firm's Products and Catalogue etc. enclosed. : YES / NO

Signature of the Authorised Official with Seal

TO BE RETURNED WITH QUOTATION

**UNDERTAKING**

***WE HEREBY UNDERTAKE THE FOLLOWING:***

1. We will not sell the product (s) to other institutions, bodies and also in the market on the rates less than those quoted by us to the Institute.
2. The goods on which Sales Tax has been charged are not exempted for payment of Sales Tax under C.S.T. Act or U.P.S.T. Act or the rules made there under and the amount mentioned on account of Sales Tax on goods is not more than what is payable under the provisions of the relevant Act or Rules made there under.
3. The rate of Excise Duty mentioned in the quotation is in accordance with the provisions of the rules and the same is payable to the Excise Authorities in respect of the stores.
4. The goods / Stores / articles offered shall be of the best quality and workmanship and their supply will be strictly in accordance with the technical specifications and particulars as detailed in the quotation.
5. The information furnished by us in the quotation is true and correct to the best of our knowledge and belief.
6. We have read and understood the rules, regulations, terms and conditions and agree to abide by them.

***Authorised  
Signatory  
(Seal)***