



INDIAN INSTITUTE OF TECHNOLOGY KANPUR
Department of Chemistry & Laser Technology Program

Dr. Debabrata Goswami, Professor

Post Office – I.I.T, Kanpur – 208016 (India)

March 16, 2012

Enquiry No :

Last Date: March 23, 2012

e4m/Δ4/2011-12/15 dt. 16/3/12

Subject: Request for Quotation for 'Lab Equipments'

Dear Sir,

Please send sealed Quotation(s) with all technical details of:

Serial No.	Name	Quantity	Specification
1	Ultra-broadband Dielectric Mirror	6	<ul style="list-style-type: none"> ➤ Mirror Shape: Round ➤ Type: Ultra-broadband Dielectric Mirror ➤ Diameter: 1.0 in. (25.4 mm) ➤ Coating Type: Ultra-broadband Dielectric ➤ Wavelength Range: 350 to 1100 nm Clear
2	Broadband Metallic Mirror	20	<ul style="list-style-type: none"> ➤ Mirror Shape: Round ➤ Type: Protected Gold Mirror ➤ Diameter: 1.0 in. (25.4 mm) ➤ Coating Type: 650nm-20μm ➤ Wavelength Range 650-20000 nm
3	IR Sensor Card	1	<ul style="list-style-type: none"> ➤ Type: IR Sensor Card ➤ Wavelength Range: 800-1700 nm ➤ Minimum Detectable Power: 8 μW/cm² ➤ Sensor Size: 2 x 2 in. (50 x 50 mm)
4	Dielectric-Coated Concave Mirror	2	<ul style="list-style-type: none"> ➤ Reflectivity >99% from 1280 - 1600 nm ➤ Diameter: 2 in ➤ F=200mm
5	Iris Diaphragm	10	<ul style="list-style-type: none"> ➤ 1mm to 25mm Aperture
6	Dichroic Mirror/Beamsplitter	2	<ul style="list-style-type: none"> ➤ Cutoff (50%)@ 1180nm ➤ Reflection: 750 - 1100 nm ➤ Transmission: 1260 - 1700 nm ➤ AR Coating: 1260 - 1700 nm ➤ Diameter: 25.4 mm ➤ Incidence Angle: 45°
7	VIS/IR Viewing Card	1	<ul style="list-style-type: none"> ➤ Absorption Band: 400 - 640 nm and 800 - 1700 nm ➤ Emission Band ~580 - 750 nm ➤ Active Region Dimensions: 1.25" x 2.1" (31.8 mm x 54 mm)



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8	Threaded Fluorescing Alignment Disks	1	➤ Threaded IR and Visible Alignment Disk (400-640 nm, 800-1700 nm)
9	Plano Convex Lens	2	➤ Diameter: 25.4 ➤ Focal length: 60.0mm ➤ Coating: Coated
10	Axicon	1	➤ Diameter: 25mm ➤ 1.0° -A Coating
11	Flip Mount	2	➤ Flip Mount
12	1 in. (25.4 mm) 45° Mirror Holder	2	➤ Type: Mounting Adaptor ➤ Optic Diameter: 1.0 in. (25.4 mm)
13	DPSS Laser Diodes	1	➤ Wavelength 532nm ➤ Optical Output Power 40mW
14	Hitachi Laser Diode	1	➤ Wavelength 635 nm ➤ Optical Output Power 15 mW ➤ Diameter 9 mm
15	NIR Laser Diodes	1	➤ Wavelength 980nm ➤ Power 30mW ➤ Package Ø5.6 mm ➤ Mode Single Mode
16	Chip on Submount	1	➤ Wavelength 1550 nm nm ➤ Optical Output Power 300 mW ➤ Diameter 5.6 mm
17	Complete Laser Diode / Temperature Controller	1	➤ Set incl. Mount, Optic, & Accessories for 600-1050 nm ➤ It includes: ➤ Benchtop LD Current Controller ➤ Benchtop Temperature Controller ➤ TEC LD Mount ➤ Spanner Wrench for M9 x 0.5 Housing ➤ Spanner Wrench for SM1 Adapters ➤ TR Series PostPost Holder for TR Series Post ➤ Mounting Base ➤ Optic Adapter ➤ Locking Nut ➤ Grounding Wrist Strap ➤ AR-Coated Collimation Optic
18	Mounted Geltech Aspheric Lens nm	1	➤ EFL 4.51 mm ➤ NA 0.55 ➤ CA 4.95 mm ➤ WD 2.92 mm ➤ DW 780 nm
19	Mounted Geltech Aspheric Lens	1	➤ EFL 4.51 mm ➤ NA 0.55 ➤ CA 4.95 mm ➤ WD 2.92 mm ➤ DW 780
20	Temperature Controlled	1	➤ Laser Diode Package* Ø5.6 mm &



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	Laser Diode Mounts		<ul style="list-style-type: none"> ➤ Ø9 mm ➤ Supported Pin Configurations A, B, C, D, E, H, and G ➤ TEC Current (Max) 5 A ➤ TEC Voltage (Max) 4 V ➤ TEC Heating/ Cooling Capacity 20 W ➤ TEC Interface DB9, Male ➤ Temperature Sensor AD592, 10 k Thermistor
21	Biased Si Detector	2	<ul style="list-style-type: none"> ➤ Active Area 0.8 mm² (Ø1.0 mm) ➤ Wavelength Range 200 - 1100 nm ➤ Rise Time 1 ns ➤ NEP (W/vHz) 1.9 x 10⁻¹⁴ ➤ Dark Current 0.3 nA (2 nA Max) ➤ Junction Capacitance 6 pF
22	Si Switchable Gain Detector	1	<ul style="list-style-type: none"> ➤ Wavelength Range 400-1100 nm ➤ Detector Size Ø9.8 mm ➤ Gain 8x 10 dB Steps ➤ Bandwidth Range DC - 1.5 MHz ➤ NEP (W/Hz^{1/2}) 2.1x10⁻¹² - 6.0x10⁻¹¹
23	Nd:YAG Laser Line Mirrors	6	<ul style="list-style-type: none"> ➤ Substrate: Fused Silica ➤ Front Surface Flatness: $\lambda/10$ ➤ Scratch-Dig: 10-5 ➤ Clear Aperture >80% of Diameter ➤ Diameter: 1" +0.00"/-0.01" (25.4 mm +0.0 mm/-0.2 mm) ➤ Thickness: 0.24" \pm 0.01" (6 mm \pm 0.3 mm) ➤ Parallelism: ≤ 3 arcmin ➤ Angle of incidence: 0° and 45°
24	Visible Achromatic Doublet Lens	2	<ul style="list-style-type: none"> ➤ Lens Shape: Plano-Convex ➤ Lens Type: Achromatic Doublet ➤ Effective Focal Length: 175 mm ➤ Diameter 1.0 in. (25.4 mm) ➤ Antireflection Coating 430-700 nm (AR.14) ➤ Clear Aperture \geq central 90% of diameter ➤ Focal length tolerance ± 2 % ➤ FFL 173.9 mm ➤ Wavelength Range 430 to 700 nm
25	Mounted Pinholes	2	<ul style="list-style-type: none"> ➤ Pinhole Diameters 50 μm
26	Mounted Pinholes	1	<ul style="list-style-type: none"> ➤ Pinhole Diameters 25 μm
27	10 Pack of Ø1" Broadband Dielectric Mirrors	2	<ul style="list-style-type: none"> ➤ Flatness $\lambda/10$ ➤ Surface Quality 10-5 Scratch-Dig ➤ Clear Aperture >85% of Diameter



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			(Round) Parallelism ≤ 3 arcmin ➤ Thickness 6 mm (0.236") ➤ Diameter Tolerance +0.00 mm / - 0.10 mm
28	Rotation Mount	2	➤ Rotation Mount for $\varnothing 1$ " Optics ➤ One SM1RR Retaining Ring Included
29	Optical Cleaning Tissues	10	➤ 50 Lens Tissue Booklets in a Closeable Box, ➤ 25 Sheets per Booklet
30	Complete Duster	5	➤ Duster w/ Integrated Nozzle

Please send your technical and commercial offer on or before 13th September 2011, to the following address:

Prof. D. Goswami
Department of Chemistry
Centre for Laser Technology
Design Program
IIT Kanpur
Kanpur- 208016
India

Offers can also be sent via email to: dgoswami@iitk.ac.in

Thanking you,

Regards,

DR. D. GOSWAMI
Professor
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