



COMSATS University Islamabad, Lahore Campus
Defence Road, Off Raiwind Road, Lahore

Tender No. CUI-LHR-TN-13-20-1404

Case # 3124

Single Stage Two Envelop Procedure

Title of Tender: **Laser & Accessories for Dr. Muhammad Junaid Amjad, Department of Physics**

TERMS AND CONDITIONS

1. All pages of bidding documents are mandatory to be signed / stamped, meaning thereby bidder agrees to our terms & conditions mentioned herein, failing which the bid may be rejected.
2. Any addition, deletion or modification of any clause of the procurement terms & conditions/ BoQs of CUI Lahore Campus by any vendor will not be acceptable and may lead to rejection of the bid.
3. Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR, are eligible to participate in tender.
4. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS University Islamabad, Lahore Campus.
5. Documents along with Pay Order / Demand Draft amounting to **Rs. 500/-** as a tender document fee (Non-Refundable) shall be submitted in favor of COMSATS University Islamabad, Lahore Campus to the address given below. No bid will be accepted without tender documents' fee.
6. Part / Advance payments is not allowed.
7. **The exact completion/installation/ delivery time from the date of the purchase / work order will be 60 days. The handing over / completion time for this contract is of critical importance.**
8. Your bid proposal should be inclusive of freight and all other taxes and to be delivered at COMSATS University Islamabad (CUI), Lahore Campus's premises.
9. After opening of bids, CUI-Lahore Campus will examine the bids for completeness as per tender document.
10. In case more than one bidder have quoted same rates for an item; the bidder securing more items (in terms of cost) will be awarded the specific item.
11. Purchase order (s) will be awarded to the lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
12. The bid should be submitted in a sealed envelope up to **September 09, 2020** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders. In case of any holiday is announced by the Govt. OR any unforeseeable circumstances that prevent the tender from being opened on the date announced (Force Majeure Situation), the tenders will be opened on the very next working day. Timing will remain as mentioned in the tender notice.
13. COMSATS University Islamabad, Lahore Campus, will follow the PPRA rule of **single stage two envelope procedure;**

Signature & Stamp of Bidder

- i. The bid shall comprise a single package containing **two separate envelopes**. Each envelope shall contain separately the **financial proposal** and the **technical proposal**;
 - ii. The envelopes shall be marked as **“FINANCIAL PROPOSAL”** and **“TECHNICAL PROPOSAL”** in bold and legible letters to avoid confusion;
 - iii. Initially, only the envelope marked **“TECHNICAL PROPOSAL”** shall be opened;
 - iv. The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of the procuring agency without being opened;
 - v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
 - vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;
 - vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
 - viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
 - ix. and
 - x. The bid found to be the lowest evaluated bid shall be accepted.
14. The envelope should be marked as under;
- Secretary, Purchase Committee**
COMSATS University Islamabad, Lahore Campus
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875
15. The envelope shall also bear the word **“CONFIDENTIAL”** and following identification quotation of **“Laser & Accessories for Dr. Muhammad Junaid Amjad, Department of Physics”**.
16. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
17. **If the vendor fails to deliver the goods / services to COMSATS University Islamabad (CUI), Lahore Campus within the given deadline, any of the following can be opted by CUI Lahore campus on the recommendation of the end user and approval of the authority;**
- a. An extension in the delivery period may be granted in case a valid reason/justification with necessary documentary evidence is provided by the vendor supporting the reason for delay.
 - b. A penalty upto 10% of the invoice value may be charged.
 - c. Purchase order may be cancelled along with confiscation of earnest money if the vendor fails to deliver the goods / services after the initial or extended delivery time, as the case may be.
18. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.

19. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.
20. Payment will be made on submission of Invoice in the name of “COMSATS University Islamabad (CUI), Lahore Campus” with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.
21. All prices should be valid for at least **120 days**. Withdrawal or any modification of the original offer within the validity period shall entitle CUI-Lahore Campus to forfeit the earnest money in favor of the CUI-Lahore Campus and / or put a ban on such vendor participation in tenders / works.
22. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
23. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.
24. The CUI-Lahore Campus reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
25. **The bidder is required to furnish in form of Bank deposit/ CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of “COMSATS University Islamabad, Lahore Campus”.**
26. **CUI Lahore Campus** reserves the rights to reject the bid if;
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. The offer is from a firm, which is black listed by any Govt. Office.
 - vii. The offer is received by telephone/telex/fax/telegram.
 - viii. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.
27. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender otherwise the tender will not be considered under any circumstances.
28. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:
 - **Company / Vendor Name:**.....
 - **Postal Address:**.....
 - **Tel. / Mobile:**.....**Email:**.....
 - **NTN# :**.....**GST#:**.....
 - **Signature:**
 - **Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.**

BoQs of Laser & Accessories for Dr. Muhammad Junaid Amjad, Department of Physics

Technical Portion (Please mention the quoted model/ brand in technical portion with no mention of price otherwise the bid will be rejected)

No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially).			Please mention the quoted Model / Brand with meeting the all specifications mentioned in BoQs	
Sr. #	Item Name & Specifications	Qty		
01	<p><u>Laser and accessories</u> Spectrometer 300-1000 nm Lasertack or equivalent. Resolution: <1nm, CCD Sensor: TCD1304AP, Photo Sensing Region: High Sensitive & Low Dark Current pn Photodiode, Internal Circuit: CCD Drive Circuit, Power Supply: Only 3.0V Drive (MIN.), Function: Electronic Shutter, Sample and Hold Circuit Package: 22 Pin DIP (T-CAPP), Detector Range 200-1100nm, Pixel 3648, Pixel Size 8um x 200um, Pixel Well Depth 100.000 electrons, Signal-to-noise ratio 300:1, Fiber Optic Connector SMA 905 single core, Weight 430 g, Size 102 x 84 x 59 mm, Compliance CE, RoHS, options: Xyz, triggering, color temperature, CRI, Y-Fibre, Or equivalent</p>	1	No.	
02	<p>400mW 980nm IR Infrared Laser Diode Module w/TTL, Model: 980MD or equivalent, Output Power: 400mw, Wavelength: 980nm Working Voltage: 12VDC, Working Current: 1.35A +- 15%, Working Temperature: -10- 30centidegree, TTL: 20KHz, Divergence: 5mrad, Focusable: YES, Lens: Glass, Dimensions: 33*33*80mm. Working Life:>5000 Hours</p>	1	No.	
03	<p>532nm 200mW Green Laser + 100mW Red Laser, Laser Module Diode TTL Stage Lighting DIY, Certification: tgleiser, Voltage: 12V, Input Voltage: 12V, Wavelength: 532nm, Emitting Color: Green, Power: 100mW, Red wavelength: 650 nm, Modulation: TTL / PWM, Laser Beam: Collimated Beam, Laser Shape: Dot</p>	1	No.	
04	<p>Long pass Filter: FEL0550- Ø1 cut-on wavelength 550nm – Thorlabs or Equivalent. Short pass Filter FES0900- Ø1 cut-off wavelength 900nm – Thorlabs or equivalent.</p>	1	Set	

05	<p>Cube Beam Splitter: 400-700nm (R:T-50:50), Dimensions: 25.4x25.4x25.4 mm, Material N-BK7, Surface quality 60/40 - SUPERFINE Optics or equivalent.</p> <p>Plate Beam Splitter: 400-700 nm (R:T-30:70), Dimension: 51.0x76.0x3.0 mm, Surface quality: 80-50, Model: 46-675, Edmund Optics or Equivalent.</p>	1	Set	
06	<p>Microscope Objective: 60X/0.70 ∞/1.1 Infinity-corrected Long working distance Plane Achromatic Microscope Objective Lens, Working Distance=2.55 mm, Dry Objective, Visible Range, Screw thread= RMS standard (5/5in. x 1/36 in.), BoliOptics or Equivalent.</p> <p>Or Nikon Plan FLUOR ELWD 40X /0.60 MD ∞/0-2 WD 3.7-2.7, Nikon or Equivalent.</p>	1	No.	
07	<p>Laser Mirrors: Laser Mirrors: 25.4mm dia. Circular Front Metal (Silver) coated reflecting mirror with protective layer, 350nm-1100nm, Surface quality= 40/20, Surface Flatness= λ/10, Dielectric protective coating, Thickness =between 4-6mm, Shenyang Ebetter Optics or equivalent.</p>	10	Nos.	
08	<p>Flipper optic mount, 1.0 in. optic dia. Thread type=8-32, Repeatability <200 μrad, Model: 9891, Newport or Equivalent.</p>	1	No.	
09	<p>Kinematic Mirror Mount for \varnothing1" Optics, Material= Aluminum, Color= Mate black, Model = KM100, Thorlabs or equivalent.</p>	6	Nos.	
10	<p>Kinematic Platform Mount, 1.92" x 1.92", Material= Aluminum, Color= Mate black, Model=KM100B, Thorlabs or equivalent.</p> <p>Clamping arm adjustable support , Height = 24.6mm, 6-32 thread post, Model = PM3, Thorlabs or equivalent.</p>	1	Set	

11	<p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 3", Material= Aluminum, Color= Mate black, Model=PH3, Thorlabs or equivalent. (Qty= 14),</p> <p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 4", Material= Aluminum, Color= Mate black, Model=PH4, Thorlabs or equivalent. (Qty= 4),</p> <p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 2", Material= Aluminum, Color= Mate black, Model=PH2, Thorlabs or equivalent. (Qty= 4),</p> <p>Mounting BASE: Dimension = 25 mm x 58 mm x 10 mm, Slot length = 1.10", Material= Aluminum, Color= Mate black, Model=BA1S(M), Thorlabs or equivalent. (Qty= 12),</p> <p>Mounting BASE: Dimension = 25 mm x 58 mm x 10 mm, Slot length = 0.80", Material= Aluminum, Color= Mate black, Model=BA1(M),Thorlabs or equivalent. (Qty=10),</p> <p>Optical post: Diameter= Ø12.7 mm, SS, M4 Setscrew, M6 Tap, L = 75 mm, M4 hole at top, M6 Hole at bottom, Model=TR75/M, Thorlabs or equivalent. (Qty= 14).</p> <p>Optical post: Diameter= Ø12.7 mm, SS, M4 Setscrew, M6 Tap, L = 100 mm, M4 hole at top, M6 Hole at bottom, Model=TR100/M, Thorlabs or equivalent. (Qty= 8).</p>	1	Set	
12	<p>Lens Mount with Retaining Ring for Ø2" Optics, M4 Tap, Model=LMR2/M, Black, Thorlab or Equivalent. (Qty=2)</p> <p>Kinematic Base (Magnetic)- 25mm x 25mm, with top and bottom plate, M4 Tapped Holes, Model = KB25/M , Thorlabs or equivalent. (Qty=01)</p> <p>UV fused silica Plano convex lens, Dia=50.8mm, f=200mm, Model= GCL-010829, Daheng Optics china or equivalent, (Qty=02)</p> <p>UV fused silica Plano convex lens, Dia=50.8mm, f=150mm, Model= GCL-010827, Daheng Optics china or equivalent, (Qty=01)</p> <p>BK7 Bi-convex lens, Dia=50.8mm, f=250mm, Model= GCL-010213, Daheng Optics china or equivalent, (Qty=01)</p> <p>Neutral Density Filters: Material BK7, OD Tolerance: ±5% of OD, Clear Aperture: >90%, Dimension=</p>	1	Set	

	25.4mmX2mm, Thickness Tolerance: ± 0.1 mm, BOCIC China or Equivalent, (Qty=05), One for each model. ZOD101 --- for ---OD1 ZOD102 --- for ---OD1.5 ZOD103 --- for ---OD2 ZOD104 --- for ---OD3 ZOD105 --- for ---OD4 Or equivalent			
13	Optical BreadBoard: Solid Aluminum Optical Breadboard Plate, Dimension= 1200x900x20 mm, Hole size= M6, Hole spacing = 25*25mm, Surface Flatness=0.1mm, Color= Black Mate, Model= MOT-L 120-090-20, Jiangxi Liansheng Technology or Equivalent. (Qty=01) Solid Aluminum Optical Breadboard Plate (Custom Size), Dimension= 800x600x12 mm, Hole size= M6, Hole spacing = 25*25mm, Surface Flatness=0.1mm, Color= Black Mate, Jiangxi Liansheng Technology or Equivalent. (Qty=01) Vertical Right Angle Brackets, Aluminum alloy Black color, Model= LSZJ6, By Jiangxi Liansheng Technology or Equivalent. (Qty=02) Vertical Right Angle Brackets, Aluminum alloy Black color, Model= LSZJ3, By Jiangxi Liansheng Technology or Equivalent. (Qty=01)	1	Set	
14	XYZ moving stage, Aluminum Black color, Top Dimension= 60*60 mm, Rail Type = V-rail (Cross Roller Guide), XY: ± 6.5 mm, Z Axis:10mm, Accuracy = 0.01mm, Model=XYZ60-LM, ZY Automation or Equivalent. (Qty=01). XY moving stage, Aluminum Black color, Top Dimension= 60*60 mm, Accuracy = 0.01mm, Table thickness= 30mm, Model=XY60-LM, ZY Automation store or Equivalent. (Qty=02). Dovetail translation stage, Black, Bottom-Located 8-32 (M4) Tap for $\varnothing 1/2$ " Post, Model=DT12, Thorlabs or Equivalent, (Qty=01)	1	Set	
15	Industrial Digital camera: 10MP color, USB 3.0 interface ,speed upto 5Gb/s, CMOS sensor, Pixel size $1.67\mu\text{m} \times 1.67\mu\text{m}$, Spectral response = 400nm-1000nm, Electronic rolling shutter, Max. resolution = 3856×2764 , Model=BUC5-1000C, BestScope or equivalent.	1	No.	

16	<p>Microscope Iris Diaphragm Optical adjustment aperture, Black, Spring-Steel Leaves, Min-1.5mm, Max-22mm, Outer dia. 37mm, Model=LSGL1-22, Jiangxi Liansheng Technology or Equivalent. (Qty=01).</p> <p>Microscope Iris Diaphragm Optical adjustment aperture, Black, Spring-Steel Leaves, Min-1.0mm, Max-10mm, Outer dia. 37mm, Model=LSGL1-10, Jiangxi Liansheng Technology or Equivalent. (Qty=02).</p>	1	Set	
17	<p>M6 screw, Full Thread, Black stainless steel, Hex socket Flat head cap, Full length=25mm, Thread pitch = 1 (Qty=24Pcs).</p> <p>M6 screw, Full Thread, Black stainless steel, Hex socket Flat head cap, Full length=20mm, Thread pitch = 1 (Qty=24Pcs).</p> <p>M4 screw, Full Thread, Black stainless steel, Hex socket head cap, Full length=12mm, Thread pitch = 0.7 (Qty=24Pcs).</p> <p>M4 screw, Full Thread, Black stainless steel, Hex socket head cap, Full length=10mm, Thread pitch = 0.7 (Qty=24Pcs).</p> <p>M2 screw, Full Thread, Hex socket head cap, Black stainless steel, Full length=10mm, Thread pitch = 0.4 (Qty=24Pcs).</p> <p>M4 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 10mm, pitch= 0.7, (Qty=24)</p> <p>M4 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 12mm, pitch= 0.7, (Qty=24)</p> <p>M2 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 10mm, pitch= 0.4, (Qty=24)</p> <p>Or equivalent</p>	1	Set	
18	<p><u>Laser safety glasses:</u> GTY 200-532nm & 900-1700nm, to block 532nm & 980 nm. OD= 6.0+, LaserPair Co. or Equivalent, (Qty=02)</p> <p>Green Laser Safety Glasses for 190-540nm O.D 6+, Visible Light Transmittance rate>35%, Frame # Style 9, black, OLYTEC Co. or Equivalent, (Qty=02),</p>	1	Set	

Bid Evaluation Criteria

All bids shall be evaluated in accordance with the following evaluation criteria and other terms & conditions set forth in this bidding document.

- a. The bids shall be evaluated to strictly ensure that the quoted brand/ model meet all the BoQ/ specification requirements given in the tender document for each item.**

Signature & Stamp of Bidder

- b. In addition to the BoQ requirements, vendors must meet the vendor qualification criteria /company profile requirements (if any), as set forth in this tender document.
- c. Supporting literature of the quoted model must be attached for verification & technical evaluation of the required specification by the technical committee. In case of any clash is found between the quoted model and the supported literature may lead to rejection of bid.

Financial Portion (Price and Brand/Model to be mention only in Financial Proposal in a separate sealed envelope) Strictly on our BoQs Form.

Vendors are required to provide both unit and total price of each item and calculations must be made carefully to avoid mistakes. However, in case, total price does not match with the unit price and quantity due to calculation error or typo error, any of the following can be opted

1. The bid may be rejected on the reason of ambiguity (OR)
2. Unit price will be considered as final and total price of the respective item will be calculated by multiplying it with the quantity required. Sub-totals and grand total will also be corrected accordingly.

No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially).

Prices should be quoted inclusive of all applicable taxes

Sr. #	Item Name & Specifications	Qty		Quoted Model / Brand / Make	Unit Price (Rs)	Total Price (Rs)
01	<u>Laser and accessories</u> Spectrometer 300-1000 nm Lasertack or equivalent. Resolution: <1nm, CCD Sensor: TCD1304AP, Photo Sensing Region: High Sensitive & Low Dark Current pn Photodiode, Internal Circuit: CCD Drive Circuit, Power Supply: Only 3.0V Drive (MIN.), Function: Electronic Shutter, Sample and Hold Circuit Package: 22 Pin DIP (T-CAPP), Detector Range 200-1100nm, Pixel 3648, Pixel Size 8um x 200um, Pixel Well Depth 100.000 electrons, Signal-to-noise ratio 300:1, Fiber Optic Connector SMA 905 single core, Weight430 g, Size 102 x 84 x 59 mm, Compliance CE, RoHS, options: Xyz, triggeing, color temperature , CRI, Y-Fibre, Or equivalent	1	No.			
02	400mW 980nm IR Infrared Laser Diode Module w/TTL, Model: 980MD or equivalent, Output Power: 400mw, Wavelength: 980nm Working Voltage: 12VDC, Working Current: 1.35A +-15%, Working Temperature: -10-30centidegree, TTL: 20KHz, Divergence: 5mrad, Focusable: YES, Lens: Glass, Dimensions: 33*33*80mm. Working Life:>5000 Hours	1	No.			

03	532nm 200mW Green Laser + 100mW Red Laser, Laser Module Diode TTL Stage Lighting DIY, Certification: tgleiser, Voltage: 12V, Input Voltage: 12V, Wavelength: 532nm, Emitting Color: Green, Power: 100mW, Red wavelength: 650 nm, Modulation: TTL / PWM, Laser Beam: Collimated Beam, Laser Shape: Dot	1	No.			
04	Long pass Filter: FEL0550- Ø1 cut-on wavelength 550nm – Thorlabs or Equivalent. Short pass Filter FES0900- Ø1 cut-off wavelength 900nm – Thorlabs or equivalent.	1	Set			
05	<u>Cube Beam Splitter:</u> 400-700nm (R:T-50:50), Dimensions: 25.4x25.4x25.4 mm, Material N-BK7, Surface quality 60/40 - SUPERFINE Optics or equivalent. <u>Plate Beam Splitter:</u> 400-700 nm (R:T-30:70), Dimension: 51.0x76.0x3.0 mm, Surface quality: 80-50, Model: 46-675, Edmund Optics or Equivalent.	1	Set			
06	<u>Microscope Objective:</u> 60X/0.70 ∞/1.1 Infinity-corrected Long working distance Plane Achromatic Microscope Objective Lens, Working Distance=2.55 mm, Dry Objective, Visible Range, Screw thread= RMS standard (5/5in. x 1/36 in.), BoliOptics or Equivalent. Or Nikon Plan FLUOR ELWD 40X /0.60 MD ∞/0-2 WD 3.7-2.7, Nikon or Equivalent.	1	No.			
07	<u>Laser Mirrors:</u> Laser Mirrors: 25.4mm dia. Circular Front Metal (Silver) coated reflecting mirror with protective layer, 350nm-1100nm, Surface quality= 40/20, Surface Flatness= $\lambda/10$, Dielectric protective coating, Thickness =between 4-6mm, Shenyang Ebetter Optics or equivalent.	10	Nos.			
08	Flipper optic mount, 1.0 in. optic dia. Thread type=8-32, Repeatability <200 μ rad, Model: 9891, Newport or Equivalent.	1	No.			
09	Kinematic Mirror Mount for Ø1" Optics, Material= Aluminum, Color= Mate black, Model = KM100, Thorlabs or equivalent.	6	Nos.			

10	Kinematic Platform Mount, 1.92" x 1.92", Material= Aluminum, Color= Mate black, Model=KM100B, Thorlabs or equivalent. Clamping arm adjustable support , Height = 24.6mm, 6-32 thread post, Model = PM3, Thorlabs or equivalent.	1	Set			
11	<p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 3", Material= Aluminum, Color= Mate black, Model=PH3, Thorlabs or equivalent. (Qty= 14),</p> <p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 4", Material= Aluminum, Color= Mate black, Model=PH4, Thorlabs or equivalent. (Qty= 4),</p> <p>Optical Post Holder Ø1/2", Spring-Loaded Hex-Locking Thumbscrew, L = 2", Material= Aluminum, Color= Mate black, Model=PH2, Thorlabs or equivalent. (Qty= 4),</p> <p>Mounting BASE: Dimension = 25 mm x 58 mm x 10 mm, Slot length = 1.10", Material= Aluminum, Color= Mate black, Model=BA1S(/M), Thorlabs or equivalent. (Qty= 12),</p> <p>Mounting BASE: Dimension = 25 mm x 58 mm x 10 mm, Slot length = 0.80", Material= Aluminum, Color= Mate black, Model=BA1(/M),Thorlabs or equivalent. (Qty=10),</p> <p>Optical post: Diameter= Ø12.7 mm, SS, M4 Setscrew, M6 Tap, L = 75 mm, M4 hole at top, M6 Hole at bottom, Model=TR75/M, Thorlabs or equivalent. (Qty= 14).</p> <p>Optical post: Diameter= Ø12.7 mm, SS, M4 Setscrew, M6 Tap, L = 100 mm, M4 hole at top, M6 Hole at bottom, Model=TR100/M, Thorlabs or equivalent. (Qty= 8).</p>	1	Set			

12	<p>Lens Mount with Retaining Ring for Ø2" Optics, M4 Tap, Model=LMR2/M, Black, Thorlab or Equivalent. (Qty=2)</p> <p>Kinematic Base (Magnetic)- 25mm x 25mm, with top and bottom plate, M4 Tapped Holes, Model = KB25/M , Thorlabs or equivalent. (Qty=01)</p> <p>UV fused silica Plano convex lens, Dia=50.8mm, f=200mm, Model= GCL-010829, Daheng Optics china or equivalent, (Qty=02)</p> <p>UV fused silica Plano convex lens, Dia=50.8mm, f=150mm, Model= GCL-010827, Daheng Optics china or equivalent, (Qty=01)</p> <p>BK7 Bi-convex lens, Dia=50.8mm, f=250mm, Model= GCL-010213, Daheng Optics china or equivalent, (Qty=01)</p> <p>Neutral Density Filters: Material BK7, OD Tolerance: ±5% of OD, Clear Aperture: >90%, Dimension= 25.4mmX2mm, Thickness Tolerance: ±0.1mm, BOCIC China or Equivalent, (Qty=05), One for each model.</p> <p>ZOD101 --- for ---OD1</p> <p>ZOD102 --- for ---OD1.5</p> <p>ZOD103 --- for ---OD2</p> <p>ZOD104 --- for ---OD3</p> <p>ZOD105 --- for ---OD4</p> <p>Or equivalent</p>	1	Set			
13	<p><u>Optical BreadBoard:</u></p> <p>Solid Aluminum Optical Breadboard Plate, Dimension= 1200x900x20 mm, Hole size= M6, Hole spacing = 25*25mm, Surface Flatness=0.1mm, Color= Black Mate, Model= MOT-L 120-090-20, Jiangxi Liansheng Technology or Equivalent. (Qty=01)</p> <p>Solid Aluminum Optical Breadboard Plate (Custom Size), Dimension= 800x600x12 mm, Hole size= M6, Hole spacing = 25*25mm, Surface Flatness=0.1mm, Color= Black Mate, Jiangxi Liansheng Technology or Equivalent. (Qty=01)</p> <p>Vertical Right Angle Brackets, Aluminum alloy Black color, Model= LSZJ6, By Jiangxi Liansheng Technology or Equivalent. (Qty=02)</p> <p>Vertical Right Angle Brackets, Aluminum alloy Black color, Model= LSZJ3, By Jiangxi Liansheng Technology or Equivalent. (Qty=01)</p>	1	Set			

14	<p>XYZ moving stage, Aluminum Black color, Top Dimension= 60*60 mm, Rail Type = V-rail (Cross Roller Guide), XY:±6.5mm, Z Axis:10mm, Accuracy = 0.01mm, Model=XYZ60-LM, ZY Automation or Equivalent. (Qty=01).</p> <p>XY moving stage, Aluminum Black color, Top Dimension= 60*60 mm, Accuracy = 0.01mm, Table thickness= 30mm, Model=XY60-LM, ZY Automation store or Equivalent. (Qty=02).</p> <p>Dovetail translation stage, Black, Bottom-Located 8-32 (M4) Tap for Ø1/2" Post, Model=DT12, Thorlabs or Equivalent, (Qty=01)</p>	1	Set			
15	<p>Industrial Digital camera: 10MP color, USB 3.0 interface ,speed upto 5Gb/s, CMOS sensor, Pixel size 1.67µm × 1.67µm, Spectral response = 400nm-1000nm, Electronic rolling shutter, Max. resolution = 3856 × 2764, Model=BUC5-1000C, BestScope or equivalent.</p>	1	No.			
16	<p>Microscope Iris Diaphragm Optical adjustment aperture, Black, Spring-Steel Leaves, Min-1.5mm, Max-22mm, Outer dia. 37mm, Model=LSGL1-22, Jiangxi Liansheng Technology or Equivalent. (Qty=01).</p> <p>Microscope Iris Diaphragm Optical adjustment aperture, Black, Spring-Steel Leaves, Min-1.0mm, Max-10mm, Outer dia. 37mm, Model=LSGL1-10, Jiangxi Liansheng Technology or Equivalent. (Qty=02).</p>	1	Set			

17	<p>M6 screw, Full Thread, Black stainless steel, Hex socket Flat head cap, Full length=25mm, Thread pitch = 1 (Qty=24Pcs).</p> <p>M6 screw, Full Thread, Black stainless steel, Hex socket Flat head cap, Full length=20mm, Thread pitch = 1 (Qty=24Pcs).</p> <p>M4 screw, Full Thread, Black stainless steel, Hex socket head cap, Full length=12mm, Thread pitch = 0.7 (Qty=24Pcs).</p> <p>M4 screw, Full Thread, Black stainless steel, Hex socket head cap, Full length=10mm, Thread pitch = 0.7 (Qty=24Pcs).</p> <p>M2 screw, Full Thread, Hex socket head cap, Black stainless steel, Full length=10mm, Thread pitch = 0.4 (Qty=24Pcs).</p> <p>M4 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 10mm, pitch= 0.7, (Qty=24)</p> <p>M4 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 12mm, pitch= 0.7, (Qty=24)</p> <p>M2 Set screw, Hexagon socket tip, stainless steel 304 grade, Full thread, full length = 10mm, pitch= 0.4, (Qty=24)</p> <p>Or equivalent</p>	1	Set			
18	<p><u>Laser safety glasses:</u> GTY 200-532nm & 900-1700nm, to block 532nm & 980 nm. OD= 6.0+, LaserPair Co. or Equivalent, (Qty=02)</p> <p>Green Laser Safety Glasses for 190-540nm O.D 6+, Visible Light Transmittance rate>35%, Frame # Style 9, black, OLYTEC Co. or Equivalent, (Qty=02),</p>	1	Set			

Special Terms and conditions;

- i. Please submit the technical and financial bid (rates) on our prescribed BoQs Form and clearly mention the quoted model / brands, with complete terms and conditions signed, stamped with both bids, otherwise your bid (s) may be rejected.
- ii. Vendor will be responsible for Onsite Installation & Commissioning of the delivered equipment's.
- iii. Purchase / work order (s) will be awarded on **Item Wise Basis.**
- iv. Kindly attach the **Tender fee with Technical Bid** and **Bid money / CDR with Financial Bid.**
- v. **Multiple rates of an item may also lead to the rejection of bid / item.**