**LIMITED TENDER ENQUIRY**

**BIT/PUR/LTE/SER/21-22//IC000729/2021 DATE:12/01/2022**

To,

**M/s. ..............................................**

Dear Sir,

Subject : Request for Quotation for Procurement CNC Router,laser cutter, vinyl cutter, mini lathe machine,drilling machine, 3D Printer & Scanner

You are requested to submit most competitive rates(s) for the following item(s) as per details given below (Sealed Quotations may be sent by hand or by post):

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| Last date and time for submissions of complete Quotations by ( Password protected)  Email to dr.[purchase@bitmesra.ac.in](mailto:purchase@bitmesra.ac.in), [purchase2@bitmesra.ac.in](mailto:purchase2@bitmesra.ac.in) sealed quotations can be submitted to the under mentioned address. | **04.02.2022 15:00 Hrs.**  ( If all LTE Vendors submit the quotation prior to the submission date, the quotations will be opened prior to last date of submission.) |

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| Sr.No. | Item Description | **Quantity** |
| 1 | 3D PRINTER  PRINT TECHNOLOGY Fused Deposition Modeling (FDM)  Print Head - 2  DIMENSIONAL ACCURACY ± 0.2 mm  LAYER RESOLUTION Range: 20 - 400 microns  PRINT MODES TUNED AND OPTIMIZED FOR: 100 microns - 200 microns  Max Material Flow Rate: ~50 mm3 per sec  Print Head Travel Speed: Up to 500 mm per sec  Build Volume : Min. 190x190x196mm  Min. 5" Full-Color Touch Screen  Camera, sensors for humidity, temperature, material detection, RFID, Calibration, Doors etc.  Nozzle diameter : Min. 0.4mm  Spool sensor/ indicator,  Material : ABS, ASA, PLA, Tough, PVA, SR-30, YLON, PETG  Safety compliance : FCC EMC Low Voltage Directive 60950-1, 62368  Software included, support file types : STL (.stl), SolidWorks (.sldprt, .sldasm), InventorOBJ (.ipt, .iam), IGES (.iges, .igs), STEP AP203/214 (.step, .stp), CATIA (.CATPart, .CATProduct), Wavefront Object (.obj), Unigraphics/NX (.prt), Solid Edge (.par, .asm), ProE/Creo (.prt, .asm), VRML (.wrl), Parasolid (.x\_t, .x\_b)  OS : Windows  Connectivity : USB Drive, USB, Ethernet, WiFi  Power : 220Volts  Warranty - 2 years | **01 Nos.** |
| 2 | 3D SCANNER  Digitizer 3D Scanner  Scan volume: Up to 20.3 (diameter) x 20.3 cm (H) (8 x 8 in.)  Dimensional accuracy: ± 2.0 mm (± 0.079 in)  Detail resolution: 0.5 mm (0.0197 in)  Triangles per 3D model: ~200K  Scan speed: Approx. 12 minutes or less  Optimal Light Conditions: Artificial indoor light  Maximum weight on turntable: 3 kg (6.6 lbs)  Included Software  Exported File Types: .stl  Operating Systems: Windows (7+) / Mac OSX (10.7+) / Linux (Ubuntu 12.04+)  Lasers: Two eye-safe Class 1 laser line generators  Camera: 1.3 megapixel CMOS image sensor  Connectivity: USB connection. | **01 Nos.** |
| 3 | DESKTOP CNC ROUTER  Working Area : 600x900x200mm Table Size : 2' x 3' Traveling Positioning Accuracy : ±0.03/300mm approx.. Repositioning Positioning Accuracy : ±0.02mm approx. Frame : Steel X/Z Structure Ball Screw Y Structure Rail, Linear Bearings and Ball Screw Max Rapid Travel Rate 8000mm/min approx.. Working Speed : 6000mm/min approx.. Spindle Power Motor 2.2KW water cooling spindle Speed : 0-24000RPM Drive Motors Stepper system Working Voltage AC220V/50/60Hz Command Language : G code Operating System DSP control Interface USB Flash Memory 128M(U Disk) Collet ER11 X,Y Resolution <0.01mm, Connectivity : USB/ micro-USB/ C- type/ etc. Installation & Commissioning  Warranty : 2 years | **01 Nos.** |
| 4 | LASER CUTTER  Laser source : CO2 laser  Working table  Blade table Working area : 1300\*900mm  Laser power : 80W/100W/130W/150W/280W/300W  Power supply : 220V/50Hz, 110V/60Hz Min  line width : ?0.15mm  Position accuracy : 0.01mm  Repetition accuracy : 0.02mm  Cutting speed : 150mm/s :  Guide rail : Hiwin Square Rails  Transmission method : Fulong Belt  Transmission Drive system : Stepper system  Cooling system : Water chiller  Control system : RDWorks V8  Control software : Coreldraw, Photoshop, AutoCAD, Tajima  Graphic format support : PLT, DXF, BMP, JPG, AI  Rotary attachment, up-down table, automatic focus, honeycomb table | **01 Nos.** |
| 5 | VINYL CUTTER  Configuration: Grit rolling type  Drive method: Digital servo drive  Max. cutting area (W x L) (\*1): 375?? × 50?  Cutting area of guaranteed accuracy (\*1) :355?? × 2?  Mountable media width Min.: 50mm Max. : 484?? (19inch)  Mountable roll media mass:5 kg  Number of push rollers: 2 rollers  Max. cutting speed: 600mm/s :at all direction  Minimum character size: Approx. 5 mm alphanumeric (varies depending on character font and media)  Mechanical resolution: 0.005mm  Programmable resolution: GP-GL?0.1/0.05/0.025/0.01???HP-GL¿ (\*2)?0.025??  Repeatability : Max. 0.1 mm in plot up to 2 m (Excluding media expansion and contraction)  Mountable number of tools: 1 tool  Blade types: Supersteel  Pen types: Oil-based ballpoint pen, Water-based fiber-tip pen  Media types: Up to 0.25mm thickness : Marking film (PVC / fluorescence / reflection), polyester film (With specified conditions)  Interface: USB 2.0 (Full Speed), Ethernet 10BASE-T/100BASE-TX  Buffer memory: 2MB  Command sets: GP-GL / HP-GL¿ (Set by command or auto-detect) (\*2)  Display: Graphic type LCD with back-light (240dots x 128dots), multiple language  Power source: 100V to 240V AC, 200V to 240V AC, 50 / 60 Hz  Power consumption: Up to 100W  Operating environment: 10 to 35 ºC, 35 to 75 % R.H. (non-condensing)  Guaranteed accuracy environment: 16 to 32 ºC, 35 to 70 % R.H. (non-condensing)  External dimensions (approx. W x D x H): 772?292?313 mm  Light weight  Compatible OS : Windows 10/8.1/7: Mac OS X 10.6 ? 10.11 / macOS 10.12 ? 10.15 (Graphtec Studio: 10.6 - 10.15, Cutting Master 4: 10.7 - 10.15)  Including software, Installation and commisioning  Warranty : 2 years or more | **01 Nos.** |
| 6 | MINI DESKTOP LATHE CUM MILLING MACHINE  Cutting (lathe)  Swing over bed :250 mm  Distance between centers : 400 mm to 500 mm  Hole through spindle 20 mm  Spindle taper MT3  Tailstock taper MT2  Spindle speed (6 steps)125-2000 rpm  Compound travel 75 mm  Cross slide travel :110 mm  Motor output power : 550 W  Thread range Metric version0.4-3.0 mm (12 threads pitches) Imperial version10-44 TPI ( 8 threads pitches)  Weight (Net/Gross) : Light  Standard AttachmentØ125 mm three jaw chuckØ13 mm drill chuck with taper shankDead centers MT3 and MT2Gear setMill table  Drilling & Milling  Drilling capacity : 10 - 15 mm  End milling capacity : 16 mm  Face milling capacity :30mm  Spindle taper MT3 or R8  Spindle speed Low range100-1100 rpm±10%  High range100-2500 rpm±10%  Headstock travel : 180 mm  Spindle to worktable : 245 mm  Head tilt : 25°L, 45°R  Motor output power :350 W  Light weight  Installation and Commissioning on site, Warranty : More than 2 years | **01 Nos.** |
| 7 | RADIAL DRILLING MACHINE  Drilling Capacity in Mild Steel : 19 mm  Spindle Centre to Column : 8" - 203 mm  Spindle Travel : 140 mm  Size of table square : 280 mm  Over all-Height of machine : 1320 mm  Max distance Spindle to base : 864 mm  Coloumn Diameter : 74.15 mm  Speed Range : (8) 86 x 3360 R.P.M.  Motor Speed : 1440 R.P.M.  Motor : 1 H.P.  Belt/ Gear drive  Attachment for 1mm drills  Installation and commissioning on site  Warranty : More than 2 years | **01 Nos.** |

Sealed Quotation may be submitted superscribed with reference number as appended hereunder:-

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| Quotation for Supply of ----  Ref.No. -------- **BIT/PUR/LTE/SER/21-22//IC000729/2021**  To,  Dy. Registrar (Purchase)  Birla Institute of Technology From : M/s----------------------------------------  Mesra , Ranchi , Jharkhand Address : ----------------------------------------  835215 Contact No. -------------------------------------  Email ID--------------------------------------- |

GST Exemption: The Institute is partially exempted from the payment  
of GST vide GOI Notification No.45/2017-Central Tax (Rate), dated  
14.11.2017 and 47/2017-Integrated Tax (Rate), dated: 14.11.2017 the applicable IGST will be at the rate of 5%. Necessary documents (DSIR) and related certification will be provided.

1. HSN code of the material should be mentioned in quotation.
2. All entries in the quotation should be typed or computer printed without any ambiguity and should be free from correction etc. Hand written offers will be rejected.
3. Late and delayed tenders will not be considered. In case any unscheduled holiday occurs on prescribed closing date the next working day shall be the prescribed date of closing.
4. The quotation should be submitted with descriptive literature & drawing. The make of the items offered should be clearly specified.
5. Material should be confirming to our specification. The deviations if any should be clearly indicated in the quotations.
6. Successful bidder has to furnish the OEM test certificates along with the materials (if applicable).
7. Rate /Price: The offered price shall be on **FOR BIT Mesra on Door Delivery basis**.
8. No Advance payment will be considered at any circumstances.
9. If offered Price Term is other than the FOR-Destination term, approximate Freight & forwarding charges along with the applicable Insurance charges may be mentioned.
10. Details of GST registration, PAN No. should be furnished along with quotations.
11. Road Permit: The supplier shall arrange Road Permit on his own for transportation material to BIT Mesra and any additional tax liability on this account shall be borne and paid by the supplier.
12. Purchaser will not pay separately for transit insurance/taxes (if any) and the supplier will be responsible until the stores arrive in good condition at the destination.
13. Warranty: Period of warranty should be clearly mentioned and also the parts covered under it. Warranty will be applicable from the date of successful installation.
14. Service Facility: Supplier must mention about the service set up in India & confirm effective after sales service.
15. BIT Mesra is not bound to accept the lowest or any quotation for whatsoever reason and reserve its right to accept or reject in whole or in part any or all the quotations received without assigning any reason.
16. Applicable taxes shall be quoted separately for all items and levies payable by the supplier under the contract shall be included in the unit price.
17. Each bidder shall submit only one quotation and sealed quotation to be submitted / delivered at the address. (Alternatively it can be email ( Password protected ) at [purchase2@bitmesra.ac.in](mailto:purchase2@bitmesra.ac.in) or dr.purchase@bitmesra.ac.in) or deliver by hand.
18. Training clause ( if any )to be mentioned.
19. Delivery period should be mentioned clearly in the quotation. If a firm accepts an order and fails to execute the order in full as perthe terms and conditions stipulated therein, it will be open to this Institute to recover liquidated damages from the firm at the rate of 0.5% to 1% per week of the order value subject to a maximum of 10% of the order value.
20. Conditional tenders will not be considered.
21. Authorized dealership certificate should be submitted in case principal manufacturing company is not quoting directly.
22. Copy of Purchase Orders for similar equipment supplied to any other organization desired.
23. Annual turnover of company for last 3 year / CA Certificate to be provided.
24. Declaration required by the vendor that the price quoted are lowest that I have supplied to any other organization.
25. Customs Duty: The Institute is exempted from payment of Customs Duty Vide GOI Notification No. 51/96 Customs, dated 23.07.1996 & No.24/2007-Customs dated 01.03.2007 with registration no 11/161/90-TU-V dated 24.07.2019. Sd/-

Dy. Registrar Purchase

BIT Mesra Ranchi-835215