



Central Purchase unit
National Institute of Technology Srinagar (J&K) -190006

Tel:- 0194-2424792/2429423/2424809/2424797 Fax:- 0194-2420475

No. NITS/CPU/ 2018/ IIEDC/3760-65 Dated:- 28 .02.2018

"Tender Notice for Invitation of bids for the supply of various equipments for IIEDC".

-0-0-0-

1. Sealed Bids are invited for the lab equipment having detailed Specifications as given in Annexure -A. in two bid format on the terms & conditions given from para-2.
2. **Envelope- A (Techno-commercial Bid) Containing the following documents:-**
 - (a) Original equipment manufacturer proof.
 - (b) Proof of being Distributor/Marketing agent/ Authorized dealer in the shape of copy of agreement and registration under law in force.
 - (c) PAN card of the firm.
 - (d) Tax registration
 - (e) Proof of annual turnover of the firm for last three years which shall not be less than Rs.3.00 Crores to be proved by way of copy of audited accounts and income tax returns of 3 years.
 - (f) Proof of availability of after sale support/service.
 - (g) Bid security for Rs.3.00 lac in the form of CDR/TDR in favour of Officer In-charge, Central Purchase Unit NIT Srinagar (J&K) and tender document fee Rs.1,000/- in the form of DD, in favour of Director, NIT Srinagar. Tender without CDR/document fee shall be rejected.
 - (h) Proof of legal status.
3. **Envelope-B (Price Bid), Containing the following:-**
 - (a) Bid prices must be quoted both in words & figures. The rates quoted should be covered with transparent tape.
 - (b) The rate quoted should be FOR NIT Srinagar (J&K).
 - (c) Bid price should be without over writing. However minor over writing should be clearly signed by the bidder. In case of any discrepancy between price quoted in figures and words, the price quoted in words will prevail. Bid price should be firm for the bid validity period.
 - (d) **All duties, taxes and levies (GST or other charges) payable, must be quoted separately.**
 - (e) **As per SRO 129 of Government of Jammu & Kashmir, the institute is Exempted from state entry tax. The Institute will provide Entry tax exemption certificate to successful bidder with supply order. The Institute is also exempted from Custom/Excise duty.**
 - (f) The bidder shall fill in Bid form in the format given in Annexure-B, Technical specification Schedule as per Annexure-C and Price bid schedule in the format enclosed in Annexure-D
4. **Validity of Bids**

Bids shall remain valid at least for 120 days from the date of opening of the bids.
5. **Evaluation of Bids.**
 - (a) The purchaser shall evaluate and compare the bids which are found Responsive. i.e
 - (i) Properly signed.
 - (ii) Conform to terms and conditions and technical specifications.
 - (iii) Accompanied with Bid security and all other documents.
 - (b) Bids shall be evaluated separately for each item.
6. **Award of contract**
 - (a) Contract shall be awarded to the bidder whose bid is commercially, technically responsive and offered at lowest evaluated price.
 - (b) Successful bidder shall be notified about the award of the contract through a supply order where in terms and conditions of supply shall be incorporated.

7. Payment.

Payment to foreign manufacturer can be made through LC as per approved terms and conditions of the supply order. However, 90% of LC will be released only after receiving the equipment in good condition at NIT, Sgr. and as per prescribed specifications along with all the necessary documents.

Indian agent has to take full responsibility of its installation, commissioning and trainings. 10% of payment will be released after successful installation, commissioning and trainings. For indigenous equipment 90% payment shall be made against delivery of equipment at NIT Srinagar in good condition and found as per prescribed specifications and 10% after successful installation/ commissioning and trainings of the equipment.

8. Warranty and after sale service:

- (a) All items shall carry comprehensive standard warranty of two years from the date of commissioning and service support after expiry of warranty.

9. Performance security.

- (a) Performance security shall be retained for the amount as mentioned in the award of contract letter/supply order. However it shall not exceed 10% of the contract value.

10. Settlement of disputes.

Settlement of disputes if any shall be subject to the jurisdiction of Srinagar Courts only.

11. Liquidated Damages.

If the bidder after accepting the purchase order of goods/equipments or services, fails to deliver any or all of the goods/equipments or to perform the services within the specified period, a penalty of 0.50% (half percent) of the price value of the item per week or part thereof shall be imposed. The maximum penalty shall be limited to 10% of the cost. Once maximum is reached NIT Srinagar shall proceed on its own to consider the termination of the supply order, on the risk & responsibility of the defaulting bidder

12. Submission of Bids.

- (a) ***The last date for submission of bids is 28.03 .2018 upto 16.00 hours.***

- (b) Bids should be properly sealed.

- (c) The two envelopes A & B should be separately sealed and superscripted as Techno-Commercial Bid & Price Bid, due date of submission, Name of equipment. These two sealed envelopes should be sealed in a bigger Envelope with the address of the Tender receiving Officer & Tender No.

- (d) Bids should be addressed to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K)-190006.

- (e) Bids not from Srinagar shall be dispatched sufficiently well in advance so as to reach the destination as per scheduled time & date. NIT Srinagar shall not be responsible for any delay by posts Deptt. or Courier agency.

13. Bid opening

- (a) The Technical Bid (Envelope- A) will be opened first and Price Bid (Envelope-B) of the qualified bidders will be opened subsequently. Interested bidders can attend the Bid opening.

- 14. Custom clearance will be responsibility of the supplier, however, Institute. will pay custom on Line through on line portal (Indian Customs EDI Gateway)**
- 15. Not withstanding above, the purchaser reserves the right to reject any or all the bids received in response to this N.I.T. or withdraw it without assigning any reasons thereof.**

Officer In-charge
Central Purchase unit, NIT Srinagar

N.B.

1. Before preparing your valuable bid kindly go through the document fully and take care of all the requirements.
2. Bidders from outside Srinagar may please send their Bids well in advance so that these are received in time.

Annexure-A

Schedule of Requirements.

Details of Equipment:-

S.No	Description of items	Specifications	Delivery Period																			
1	STATE OF THE ART CNC ROUTER, 5.5 AXIS MACHINE	<ul style="list-style-type: none"> • Working Size 1300*2500*300 mm. • Table Size 1300*2500 mm. • Table Structure Vacuum Table (Section Table). • Transmission: X,Y-Rack Pinion Transmission, Z-Ball Screw, • MAX Travelling Speed :50000 mm/min • Working Speed :30000 mm/min, • Spindle Power 6.0 kw, HSD Air Cooling, Spindle Speed 0-18000r/min. • Driving System, Stepper Motor • Working Voltage AC380V/3PH/50Hz, • Operating System NC STUDIO /PCI controller and handle with Frequency Generator, • Software : ART CAM/ any other latest CAM software • Vacuum Pump Air-cooled 5.5 kw (7.5 hp) 	60 days After date of issue of supply order.																			
2	5-Axis Head Specifications	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Height</td> <td>12 inches Excluding Adapter</td> </tr> <tr> <td>Weight</td> <td>150 pounds; 200 pounds with motors</td> </tr> <tr> <td>Width</td> <td>8.5 inches Outer Diameter</td> </tr> <tr> <td>Pivot Length</td> <td>~5.33 inches - Exact Value Varies</td> </tr> <tr> <td>B Tilt Axis Range</td> <td>180° (+/-90°)</td> </tr> <tr> <td>C or A Rotary Axis Range</td> <td>360° Continuous</td> </tr> <tr> <td>Rapid Traverse Speed</td> <td>133° Per Second(Tilt and Rotary)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Spindle / Drive System</td> </tr> <tr> <td>Power Source</td> <td>Host CNC Spindle</td> </tr> <tr> <td>Ratio</td> <td>1 to 1</td> </tr> </table>		Height	12 inches Excluding Adapter	Weight	150 pounds; 200 pounds with motors	Width	8.5 inches Outer Diameter	Pivot Length	~5.33 inches - Exact Value Varies	B Tilt Axis Range	180° (+/-90°)	C or A Rotary Axis Range	360° Continuous	Rapid Traverse Speed	133° Per Second(Tilt and Rotary)	Spindle / Drive System		Power Source	Host CNC Spindle	Ratio
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Spindle / Drive System																						
Power Source	Host CNC Spindle																					
Ratio	1 to 1																					

		Standard RPM	100 - 5,000 RPM
		Optional RPM(Mechanical)	100 - 25,000 RPM (Speeder Head)
		Optional RPM(Pneumatic)	100 - 50,000 RPM (Air Spindle)
		Spindle Nose	High Precision HSK
		Tooling Type	HSK 40C (Up to .750 Cutting Diameter)
		Tool Change	Automated Quick Change HSK
		Tool Drum with min. eight tool	
		Requirements	
		Control	Must be 5-axis capable or 2-Axis Control
		4th/5th Servo Axis	Machine Specific(provided by manufacturer)
		4th/5th Servo Motors	35in-lbs(4Nm) Continuous Torque
		Post Processor	Available From Tri-Tech Precision Products
		CAM Software	Must have 5-axis capability, ART CAM
		Machine Adapter	Manufactured specific to host machine
		Functionality	
		Adaptability	VMC, HMC, Bridge, VTL, and more.
		Interchangeable	Easily convert from 3-axis to 5-axis
		5-Axis Machining	Fully programmable/simultaneous (if supported by host)
		3+2 Machining	Independent 2 axis controller for unsupported controllers
		Machining Capabilities	
		Material Types	Steel, Titanium, Aluminum, Composites,

		Ceramics, and more.	
		Machining Strategies	Milling, Drilling, Boring, Tapping, Reaming, Kelling
3	➤ MIG and TIG machines	<input type="checkbox"/> MIG and TIG machines <ul style="list-style-type: none"> • MIG/ARC Welding M/c (Dual Function, Complete Set) 1 Set <input type="checkbox"/>56,800 <input type="checkbox"/>56,800 Model: CWM-MIG250i Capacity: 250 Amps Technology: Digital Inverter Based Phase: III Warranty: 5 Years MIG/ARC Welding M/c (Dual Function, Complete Set) 1 Set <input type="checkbox"/>82,500 <input type="checkbox"/>82,500 Model: CWM-MIG400i Capacity: 400 Amps Technology: Digital Inverter Based Phase: III Warranty: 5 Years MIG/MAG Standard Accessories Include: 1 High Speed Wire Feeder 2 MIG/MAG Torch (Complete Set) 3 Flow Meter & Regulator 4 Hose Pipe 5 Grounding Cable Clamp 6 Input Power Lead 7 Welding Cable Lugs (Copper Based) 8 Product Manual TIG/ARC Welding M/c (Dual Function, Complete Set) 1 Set <input type="checkbox"/>36,500 <input type="checkbox"/>36,500 Model: CTW-TIG300i Capacity: 300 Amps Technology: Digital Inverter Based Phase: III Warranty: 5 Years TIG/ARC Welding M/c (Dual Function, Complete Set) 1 Set <input type="checkbox"/>48,800 <input type="checkbox"/>48,800 Model: CTW-TIG400i Capacity: 400 Amps Technology: Digital Inverter Based 	

Phase: III

Warranty: 5 Years

TIG Standard Accessories Include:

1 TIG Torch (Complete Set)

2 Grounding Cable Clamp

3 Input Power Lead

4 Argon Regulator

5 Flow Meter

6 Product Manual

Spot Welding Machine (Rocker Arm Type)

1 Set □38,800 □38,800

Model: CSP-10 KVA

Capacity: 10 KVA

Type: Pedal Operated

Technology: Transformer Based

Phase: II

Warranty: 5 Years

Spot Welding Machine (Rocker Arm Type)

1 Set □52,800 □52,800

Model: CSP-15 KVA

Capacity: 15 KVA

Type: Pedal Operated

Technology: Transformer Based

Phase: II

Warranty: 5 Year

• MIG/ARC Welding M/c (Dual Function, Complete Set)

1 Set □56,800 □56,800

Model: CWM-MIG250i

Capacity: 250 Amps

Technology: Digital Inverter Based

Phase: III

Warranty: 5 Years

MIG/ARC Welding M/c (Dual Function, Complete Set)

1 Set □82,500 □82,500

Model: CWM-MIG400i

Capacity: 400 Amps

Technology: Digital Inverter Based

Phase: III

Warranty: 5 Years

MIG/MAG Standard Accessories Include:

1 High Speed Wire Feeder
 2 MIG/MAG Torch (Complete Set)
 3 Flow Meter & Regulator
 4 Hose Pipe
 5 Grounding Cable Clamp
 6 Input Power Lead
 7 Welding Cable Lugs (Copper Based)
 8 Product Manual
 TIG/ARC Welding M/c (Dual Function, Complete Set)
 1 Set □36,500 □36,500
 Model: CTW-TIG300i
 Capacity: 300 Amps
 Technology: Digital Inverter Based
 Phase: III
 Warranty: 5 Years
 TIG/ARC Welding M/c (Dual Function, Complete Set)
 1 Set □48,800 □48,800
 Model: CTW-TIG400i
 Capacity: 400 Amps
 Technology: Digital Inverter Based
 Phase: III
 Warranty: 5 Year
 TIG Standard Accessories Include:
 1 TIG Torch (Complete Set)
 2 Grounding Cable Clamp
 3 Input Power Lead
 4 Argon Regulator
 5 Flow Meter
 6 Product Manual
 Spot Welding Machine (Rocker Arm Type)
 1 Set □38,800 □38,800
 Model: CSP-10 KVA
 Capacity: 10 KVA
 Type: Pedal Operated
 Technology: Transformer Based
 Phase: II
 Warranty: 5 Years
 Spot Welding Machine (Rocker Arm Type)
 1 Set □52,800 □52,800
 Model: CSP-15 KVA

Capacity: 15 KVA
Type: Pedal Operated
Technology: Transformer Based
Phase: II
Warranty: 5 Year

- MIG/MAG Standard Accessories Including High Speed Wire, Feeder
2 MIG/MAG Torch ,3 Flow Meter & Regulator, 4. Hose Pipe, 5. Grounding Cable Clamp, 6. Input Power Lead 7. Welding Cable Lugs (Copper Based),
- TIG/ARC Welding M/c (Dual Function, Capacity: 300 Amps
Technology: Digital Inverter Based Phase: III, Warranty: 5 Years
TIG/ARC Welding M/c (Dual Function, -400 Amps,
Technology: Digital Inverter Based Phase: III
Warranty: 5 Years
TIG Standard Accessories should include:
1 TIG Torch (Complete Set)
2 Grounding Cable Clamp.
3 Input Power Lead,
4. Argon Regulator,
5 Flow Meter,
6. Argon, Carbon dioxide & Helium gas cylinders at least two each.
- Spot welding machine
Supply V $415 \pm 10\%$, Phase Ph2, Frequency: 50 hz , Load : KVA15, Throat
Depth : mm280 ~ 330, : Throat Clearance, mm190; Output Current, A
3800, Clamping Force ; Kgf 128, Weight Kg230
Key Feature:-
Thyristor control power adjustment with electronic timer.
- CO2 Welding machine.

Features: High Power Factor & Efficiency Advanced Thyristorised
Technology Low Spatter Continuous Adjustment of Welding Voltage &
Current Reduced Melting Ball at the End of Welding All Position Welding,
High Deposit Metals such as Mild Steel, Cordon Steel, Aluminium & their
Alloys with Proper Gases & Accessories 2 T/ 4 T Functions with Crater
Current Control Easy Operation with Robust Design Minimum
Maintenance, Running cost Less Accessories: Wire Feeder with Mg Torch

		<p>Co2 Regulator with Flow Meter Gas Pre Heater with Wire Earthing Cable Gas Pipe Interconnecting Cable 5 meter, Power Source to Feed Specifications: Model FWAA - 250 FWAA - 400 FWAA - 600 Supply voltage 360-440 V 380-440 V 380-440 V Phase 41642 3 3 Frequency 50 HZ. 50 HZ. 50 HZ Cooling Forced air Forced air Forced air Insulation class 'H' 'H' 'H' Open circuit voltage 18 - 42 VDC 18 - 42 VDC 18 - 60 VDC Max. Welding current @ 60% 250 400 600 Duty cycle - - - Max. Welding current @ 100 185 310 460 Duty cycle - - - Weight (approx.) 140 K.G. 170 K.G 250 K.G Dimension (inches, approx) 26 X 16 X 21 30 X 18 X 24 30 X 20 X 28.</p>		
4	RP MACHINE	Physical dimensions(DWH)	955mmx1040mmx925mmx (37.6inx40.99inx36.41in)	
		Input power**	100-120VAC/180-250VAC	
		Power consumption	1750W	
		Input frequency	Max 47-63Hz	
		Build volume	125litre(33.02gallon)	
		Maximum printable area(Dual extruder)	500mmx500mmx500mm (19.68inx19.68inx19.68in)	
		Model of extruder	DriveAll metal extruder	
		Recommended materials	ABS, PLA	
		Material support	As applicable	
		Print accuracy	0.10-0.35mm(0.004-0.014)	
		Maximum print speed	0.004-0.014) 500mm/s	
		Build rate(material deposition rate)	30cm ³ /hour	
		Layer precision	0.1-0.25mm(0.35mm possible for 0.5mm Nozzle)	
		LCD support	wanted	
		Software supported	As applicable	
		Positioning accuracy	0.016mm	
		Noise level	Less than 70db	
		Layer thickness	:range1:0.1-0.15,range2:0.15- 0.25,range3:0.25-0.3	
		XY Precision	Positional accuracy 16 micron using HIWIN High Precision Linear Guide Rails	
		Z precision	Patented precision Z axis mechanism with electromechanically synchronized four ball screws and moving XY gantry	
		Supporting System	Windows and Mac	
		Training	1 week free of cost	
		Warranty	1 Year	

5	LASER 3D SCANNER	<p><i>3D SCANNER with software</i></p> <ul style="list-style-type: none"> ✓ Measurement System: Multi Stripe Laser Triangular on (MLT) technology . ✓ Measuring range 10mm, 1280 points/profile, Point distance 7.8µm, Reference resolution 1µm ✓ Source: Twin arrays of four, Class 1M, 10 mW solid state lasers with custom optics 650 nml. ✓ Object Size: No preset limit. Objects larger than field should be assembled with supplied software ✓ Field Size: 5.1" x 3.8" (Macro) and 13.5" x 10.1" (Wide). HD PRO Extended Mode 22.5" x 16.75". ✓ Resolution: 3D point density on target surface is 400 DPI in Macro Mode and 150 DPI in Wide Mode. ✓ Sensor 5.0 Mega pixel COMS Image sensors ✓ Texture Density: 400 DPI on target surfaces is 400 DPI in Macro Mode and 150 DPI in Wide Mode. ✓ Dimensional Accuracy: ±0.005" (127 microns) in Macro Mode and ±0.015" (381 microns) in Wide Mode. ✓ Acquisition Speed: 50,000 processed points/sec throughput. Typically 2 minutes per scan of each facet ✓ Typical Datasets: Typical small models are a quarter million points, after over sampling and optimisation. ✓ Interface: USB 2.0 high speed interface. USB cable included. Power: 100 - 240 VAC built-in worldwide auto-switching power supply. AC cable included. Scan: Control scanner & auto drive. ✓ Align: Automatic alignment of scan sets. 	
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(Tender opening format)
(To be filled-in by the Bidder)

Name of the firm:- _____

Tender for supply of _____

NIT No. &Date:- _____

Technical specification/ literature attached:- Yes/No

Valid tax clearance certificate attached:- Yes/ No

Registration/ Authorization Dealership/
manufacturer certificate attached:- Yes/ No

Revenue stamp affixed. Yes/ No

Rates covered with transparent tape:- Yes/ No

Bid document fee deposited:- Yes/ No

Call Deposit Receipt enclosed:- Yes/ No.

Bid price in Indian Rupees:- Yes/ No

FOR Srinagar:- Yes/No

Bid without correction/overwriting:- Yes/ No

Seal & Signature of the Supplier.

Annexure-B
BID FORM

From M/S.....

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To,
Officer In-charge,
Central Purchase unit, NIT Srinagar.

Ref: NIT No.: NITS/CPU/ /2017-18 Dated:.....goods/Equipment for
.....Department

Sir,
With reference to above invitation for bids we would like to say that we have gone through your bid document thoroughly and hence offer our competitive Technical/Price Bid in sealed envelope for the supply of various goods/equipment listed in your document.

The following documents constitute our Bid.

- (a) Bid form
- (b) Price Bid schedule in the requisite format
- (c) Authorization dealer ship certificate from the manufacturer
- (d) Valid sales tax certificate
- (e) Technical literature for the goods/equipment
- (f) Names of organization where this equipment has been supplied. (Applicable for equipment whose unit price exceeds Rs.2.00 lacks
- (g) Bid security as mentioned in the schedule of requirements in the form of CDR drawn in favour of the Officer In-charge Central Purchase Unit NIT Srinagar.
- (h) Telephone No.....

Kindly feel free for any enquiries and clarifications.

Yours Sincerely

(.....)
From M/S.....

Place.....

Date.....

.....

Annexure-C

Technical specification.

Name of Equipment /Goods : e.g., **Scanning Probe Microscopy**

Make /Model/ Country of origin: e.g.,

S. No.	Technical Specifications (as per. NIT/CPU/13/ aaaa-aaaa Advertised)	Technical Specifications of the Make /Model	Complies	Higher/Better (with detail quantification)	
				Higher/Better	Quantification
1			Yes	----	
2				Higher	
3					

Annexure-D

Price Schedule

S. No	Name of equipment/goods	Ex Factory/Ex show room cost	Custom Duty & Excise Duty	CST/VAT	Packing & forwarding transportation	Incidental services	Total unit price

