



Central Purchase unit

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

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Document for Tender Notice No. 12 of 2018 Dated 28.06.2018.

"Tender Notice for Invitation of bids for the supply of Lab Equipment for Mett.& Material Engg. Department.

-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.1.00 Crore 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. 25,000/= 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.
 - (i) The bidder shall fill in Bid form in the format given in Annexure-B, Technical specification Schedule as per Annexure-C.
 - (h) List of users of the said equipment.
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) 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 GFR-2017. For Indian bidders 80% payment shall be made against delivery of equipment at NIT Srinagar in good condition and found as per prescribed specifications and 20% after successful installation/ commissioning and training of the staff if required..

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 25.07.2018 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)

(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. Notwithstanding 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.

No. NIT/CPU/Mett./18/4132-40

Dated 28.06.2018

Annexure-A

S.No	Description of items	Specifications/Make /Model	Qty.	Delivery Period
1.	Inverter Based Square Wave AC/DC TIG Cum MAW Welding Machine, -315 Amps Capacity Water Cooling	Annexure -I	01 No.	45 days from the date of issue of supply order
2.	TIG Welding Torch with 4 Mtrs Long Cable	Annexure -II	01 No.	
3.	Argon Pressure Regulator with Flow Meter	Double Gage/ Single Stage, Suitable for Argon Gas	01 No.	
4.	Copper Welding Cable	Copper Welding Cable 400 Amps. 50 Sq mm -05 Mtrs. with fitted electrode holder at one side & lug another side	01 No.	
5.	Earthing Copper Cable	Earthing Copper Cable 400Amps 50 Sq mm -05 Mtrs with fitted earth clamp at one side & lug another side	01 No.	
6.	TIG Welding Torch Spares:	<ul style="list-style-type: none"> Long Caps and Short - 1 No. Each • Ceramic Nozzle • Collet: 2.0,2.4,3.0,4.0 mm – 1 No. each • Teflon Washer • Tungsten Electrode , Size: 2.4 mm 	02 No. 02 No. 04 No. 01 No. 01 No.	

ANNEXURE-1

Inverter Based Square Wave AC/DC TIG Cum MAW Welding Machine,

-315 Amps Capacity Water Cooling

Technical Specifications:

Power Source with Built in HF Unit and Water Cooling System:

Input supply: 3 ph 415 + 10 %. 50 Hz AC Supply

Rating :

MMA: 9.0 KVA

DC TIG : 9.0 KVA

AC TIG : 9.0 KVA

Power Source Inverter based Welding equipment Built in HF Ignition.

Welding current range

MMV : 10-315 AMP

DC TIG : 10-300 AMP

AC TIG : 25- 300 AMP

Open circuit voltage : 48 TO 58 Volt

Cooling : Forced Air

Class of Insulation : F

Peak current range

(DC TIG) : 10-315 Amp

(AC TIG) : 25-315 Amp

Back ground current range

(DC TIG) : 10-315 Amp

(AC TIG) : 25-315 Amp

Peak time in second : 0.5-5 sec

Background current time : 0.5 - 5 sec

Pulse WIDTH : 10% - 90 %

Wave balancing (AC): should be Provided (-5 to +5)

Pulse Frequency : 15 to 450 Hz

Power factor : 0.92

Suitable fuse system should be provided

Dimensions (mm) : 570*364*372

Weight (Kgs) : Less than 50Kgs without water cooling system

Water Cooling System consist of Water Pump, Cooling Fan, Radiator & SS Water Tank etc.

Mounted on four wheels trolley for easy transportation.

Basic Machine Power Source should be Built in HF Ignition mounted on Water Cooling system.

(Better specifications of above will be preferred.)

ANNEXURE-II

TIG Welding Torch with 4 Mtrs Long Cable. Technical Specification

Rating @ 60% Duty Cycle : 400 Amps.

Type of Cooling : Gas (Self) Cooled

Suitable for Electrode Size : 2.0, 2.4, 3.0,4.0 mm

Length of Cable : 4 Mtrs.

Type of molding : Rubber Molded

(Better specifications of above will be preferred.)

S.No	Description of items	Specifications/Make /Model	Qty.	Delivery Period
1.	Quartz Photocatalytic Reactor with quartz immersion well	Annexure -I	01 No.	45 days from the date of issue of supply order
2.	UV Lamp specially manufactured for photoreaction	Annexure -II	01 No.	
3.	Lamp Controller	Electronic Ballast controller with Step down Transformer. 3 Pin Adopter for 2 Pin ARC Adopter for UV / Visible Lamp)	01 No.	
4.	Digital Magnetic Stirrer	Annexure -III	01 No	
5.	Outer Metal Shell (Safety Cabinet for Photocatalytic Reactor)	Annexure -IV	01 No.	

ANNEXURE-I

Quartz Photocatalytic Reactor with quartz immersion well

S.No	Description	Specification
1	TRIPLE JACKETED REACTOR	
a.	Glass type	UV borosilicate glass highly durable tested at 650 ⁰ C
b.	Capacity	500mL calibrated with proper marking
c.	Inside condenser	Inert type Double jacketed quartz jacketed condenser
2.	Ports for outside reactor	Total No. of ports: 3 1) One for micro plated pH electrode 2) One for Gas Inlet – B-14 size 3) One for Gas Outlet – B-14 size
a.	Reactor Design	Centre Neck Armoured TQR Tapper quick fit Design
b.	Reactor bottom	C flat suitable for magnetic bar N 12 type (95 mm)
c.	Outer reactor Height	260 mm + 55 mm (neck)= 315 mm total
d.	Inner reactor Height	310 mm
e.	Inner reactor Diameter (I.D)	47mm

Better specifications of above will be preferred.

ANNEXURE-II

UV Lamp High Pressure Mercury lamp (Visible Lamp)

Capacity - 450 Watt

S. No	Description	Specification
a.	Lamp Capacity	450 W
b.	Lamp length	290mm Including Mounting
c.	Lamp diameter	34mm
d.	Average lamp life	800 hr (On proper lamp cooling)
e.	Input Voltage	220V
f.	Operating voltage	110-120V, 3.2Amp
g.	Spectral range of lamp	360nm and above
h.	Peaks @	520nm (Predominantly)
i.	Arc Length	100 mm

Better specifications of above will be preferred.

ANNEXURE-III
Digital Magnetic Stirrer

Description	Specification
Digital Magnetic Stirrer drive with timer: 0-1250 rpm, (Maximum timer range – 999 minutes)	<ul style="list-style-type: none">• Digital magnetic stirrer drive provided with timer,• Timer Range- 999minutes• Maximum Stirring volume – 2000ml• Power requirement : 220V/50Hz or 110V/60hz• Ambient Temperature – Room temperature to 60⁰C• Relative Moisture – 80%• Dimension : L 230mm × W 180mm × H 120mm• Stirring speed Range : 0-1250 rpm• Weight – less than 05Kg• Large Custom LCD Display• Microprocessor based functions• Unique Magnet hold stir bar tightly• Large Mixing Capacity• Easy Operation

Better specifications of above will be preferred.

ANNEXURE – IV
Outer Metal Shell (Safety Cabinet for Photochemical Reactor)

S. No	Description	Specification
a.	Safety cabinet	Safety switch for UV lamp Electronic ballast control along with step down transformer, blower, Eye protect, electrical plug socket (2 nos.), RT inlet-outlet line and exhaust fans provision. Silicon tubing (ID 10mm , OD 14mm)
b.	Control	<ul style="list-style-type: none"> • Automatic UV light or Rays protection system Automatic on/off UV Lamp Timer (Max capacity of timer is 9999 minutes) Manual on/off UV Lamp
c.	Temperature display	<ul style="list-style-type: none"> • Digital temperature display (@ four sample point which is Reaction temperature, Cabinet chamber temperature, Water inlet and outlet temperature) • Thermocouple – PT-100 (range -25⁰C to 250⁰ C)
d.	Digital Volt meter	High quality digital voltmeter for measure voltage
e.	Exhaust system	Heavy duty exhaust system equipped with cooling Exhaust fans to avoid melting of xenon lamp.
f.	Locking system	<ul style="list-style-type: none"> • Aeroflex or equivalent locking system for the safety Cabinet • Clamp/Spring based in-build reactor Holding Stand
g.	Lamp arrangement for cabinet	LED panel Lamp for cabinet (Automatic Switching)
	Safety Cabinet dimensions (H x W x L)	Height 1150mm x Width 550mm x Depth 450mm (+10 acceptable)
	Transformer with closed cabinet	Suitable transformer for 25w and 450w lamp
	Safety	UV light protected Goggles, Safety LED system
	CHILLER System	<ul style="list-style-type: none"> • Inbuilt cooling water circulations system (i.e. CHILLER) for cooling water circulations of capacity 8 liter with Teflon Aerofluc Adapters for cooling quartz jacket Circulation speed 2-3 Liters / Minute • Cooling temperature controller system (PID controller)

Better specifications of above will be preferred.

(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/ 2018-19/..... 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.,

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

S. No.	Technical Specifications (as per. NIT/CPU/Advertised)	Technical Specifications of the Make /Model	Complies	Higher/Better (with detail quantification)	
				Higher/Better	Quantification
1			Yes	----	
2					
3					
4					
5					

