## <u>NO.: PGD/CHEM/19/364</u> <u>DATED: 27.06.2019</u>

## NOTICE INVITING TENDERS FOR THE PURCHASE OF DROP SHAPE ANALYZER (GONIOMETER)

Offers (rates and terms & conditions) alongwith detailed literature and specifications are invited from manufacturers/authorized distributors/dealers etc. for supply of following instrument with terms and conditions mentioned below:

## TECHNICAL SPECIFICATIONS FOR DROP SHAPE ANALYZER (GONIOMETER)

S.No.	Specification	Description
1.	Frame module	Standard Frame for fixing the light source, sample stage,
		dosing system, optics & camera. The frame must be rugged
		enough to place heavy samples up to 5 kg weight. It must
		have four adjustable feet for level adjustment.
2.	Light Source	High power LED lamp $Ø$ 42mm with integrated light-blind or better
3.	Optics & Cameras	Optical system with zoom (6.5x) lens or better
4.	Camera system	High resolution and high-speed USB 3.0 camera
		Sensor 11.0 mm x 7.0 mm / 1/1.2" CMOS
		IR-CUT filter for elimination of optical disturbances
		150 fps (1200 x 1200 pixel), 500 fps (1200 x 350 pixel)
		800 fps (1200 x 200 pixel), 2000 fps (1200 x 60 pixel)
		or better configuration
5.	Sample stage: Axes and	The sample stage size should be 100 x 100 mm (L x W) with
	sample stages	flexible positioning in x-y directions
		The sample stage should be able to take the sample size of
		$320 \text{ x} \propto x 165 \text{ mm} (W \text{ x} \text{ D} \text{ x} \text{ H})$ , the stage should be capable
		to take the samples of 5kgs or more.
6.	Dosing System	2 nos. Software-Controlled direct Dosing System
7.	Accessories:	Manual dosing system for glass and disposable syringe
		Glass cuvette for IFT measurements
		J shaped needle dia.: 1mm, length 38mm - 1no.
8.	General	(a) Contact angle measurement range : 0-180°
		(b) Measuring resolution: 0.1 deg.
9.	Software	The complete software must 64-bit and compatible with Win
		10 and an integrated pack to control the dosing of liquids,
		image analysis and evaluation of results.

		Software to determine static and dynamic contact angles using sessile drop and captive bubble method, store and report measured contact angle values. The software should be able to record the video images and should be able to trigger the camera for video recording. These video images are then analyzed frame by frame by the software automatically. Software to determine surface free energy of solids from contact angle data. The surface free energy splits into its polar and dispersive components. Integral and extendable database with substance data of liquids which can be linked directly to the measuring data. Software to measure the Surface and Interfacial tension of
		liquid-air/liquid-liquid interface by Pendent drop method.
10.	Desktop PC	PC with i5 processor, 8 GB RAM, 1 TB Hard Disk, Windows
		10 OS, 64-Bit, or better
11.	UPS	2 KVA UPS with minimum 30 minutes or more
12.	Temperature Chamber	Chamber to work at elevated/reduced temperature in range of -10 to 100°C or 5°C to 90°C
		The chamber should be suitable for sample size of 132x132x27mm
13.	Laboratory Cryostatic bath	Working range -10 to 100°C, accuracy 0.1°C, Tank size 5L, connectable to the environmental chamber
14.	Warranty	2 years (minimum)

- 1. Tenders should be addressed to, "Head of the Department, Department of Chemistry, Baba Saheb Ambdekar Road, New University Campus, University of Jammu, Jammu 180 006".
- 2. Delivery of goods should be FOR Department of Chemistry, University of Jammu, Jammu.
- 3. General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges upto FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu.
- 4. Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.
- 5. Firm shall be required to submit complete information/brochure/catalogue along with the offer.
- 6. Firm should submit an authorization certificate from principal firm for sale and service.
- 7. Concession to educational institutions, if any, should be clearly mentioned.
- 8. Products confirming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- 9. In case any item is your proprietary product or if you are sole manufacturer/distributor of requisite item, a certificate to this effect should be enclosed.
- 10. It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- 11. In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- 12. An undertaking should be submitted by your concern that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and your concern/firm has not sold your product to any other organization in India at lowest price than the price quoted in this offer.
- 13. A user list of the institutions/organizations where the quoted equipment has been installed and working successfully must be provided.
- 14. Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
  - (i) A bidder shall be debarred if he has been convicted of an offence—
    - (a) under the Prevention of Corruption Act, 1988; or

- (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
- (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
- (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- 15. All the pages of soft copy of the offer should be endorsed along with the stamp/seal of the firm.
- 16. It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- 17. Firm shall be required to submit the EMD/Bid security amounting to Rs. 34000/- in the form of bank guarantee/DD/CDR from any of the commercial banks which should remain valid for the period of forty five (45) days from beyond the final date validity period.
- 18. Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- 19. Successful bidders shall be required to submit performance security amounting to 10% of the quoted price pledged to <u>the Head</u>, <u>Department of Chemistry</u>, <u>University of Jammu</u>, <u>Jammu</u> in the form of bank guarantee from any of the commercial banks which should remain valid for sixty (60) days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- 20. Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened.
- 21. Item must be quoted alongwith the warranty as specified in technical specifications.
- 22. Technical specifications of the required instruments/equipments/articles are given above.

## <u>NO.: PGD/CHEM/19/392</u> <u>DATED: 08.07.2019</u>

# NOTICE INVITING TENDERS FOR THE PURCHASE OF GLOVE BOX

Offers (rates and terms & conditions) alongwith detailed literature and specifications are invited from manufacturers/authorized distributors/dealers etc. for supply of following instrument with terms and conditions mentioned below:

#### **TECHNICAL SPECIFICATIONS FOR GLOVE BOX**

S.No	Components	Specification
1.	Glove Box:	Inner Box Dimensions (mm): $900 \times 1200 \times 750 [H \times L \times W]$ or higher. All Three side welded, SS 304, Leak Rate $\leq 0.05$ vol.%/h (ISO 10648-2). Stainless steel 304. Inside surface brushed finish, scratch & chemical resistant. Outside powder coated. Thickness 3mm.Front mounted LED Light with PLC Controlled ON/OFF facility.
2.	Box Operating Pressure:	Automatic -10 mbar to +10 mbar. Oil Free based pressure relief valve along with Foot pedal for Box Pressure control.
3.	Front View Window:	Toughened Glass safety window Chemical& scratch resistance should not deform under pressure. Thickness :8mm
4.	Shelves:	Minimum Two adjustable storage shelves (SS Material)
5.	Feed Through (Leak Proof):	4 standard feed throughs (DN 40) on back wall sealed by blank KF- caps Including One Electrical feed through
6.	Filters:	Inlet/Outlet 0.3-micron HEPA filters
7.	Main Antechamber:	Cylindrical (Stainless steel). Minimum Dia 370 mm, Length Minimum 600mm. Doors Anodized Aluminum thickness 10mm. Inside Brushed Finish, spindle lock. Welded onto side panel. sliding tray(SS). Manual Evacuation/ Refills Cycles.
8.	Mini Antechamber	Cylindrical (Stainless steel) with hinged doors. Dia minimum150mm, Length Minimum 300mm welded onto side panel. Sliding form- fitting tray(SS). Manual Evacuation/ Refills Cycles with 3-way ball valve
9.	Glove ports:	2ports, Anodized Aluminum Alloy, Dia. minimum 200mm. O- ring sealed against the gloves
10.	Gloves :	2 gloves. Material: Butyl gloves, Thickness: minimum 0.4mm
11.	Vacuum pump:	Rotary vane Vacuum pump or better, Oil re-circulation. Vacuum: 10 CFM or better. The pump ON/OFF should be

		controllable via the touch panel.
12.	Programmatic Logic Control:	Controllable with independent and fully integrated PLC, Details of PLC and functioning should be provided. Graphical display of the box pressure, O2 and moisture levels should be available, in color, in the touch panel interface
13.	Moisture Sensors:	Advance Ceramic sensor/Hyper Thin Film Sensor, Dew Point Range: -100 °C to + 20 °Accuracy: +/-3°C or better, Repeatability - +/-0.5 °C, Measuring range: 0-3000 ppm or higher with calibration certificate National/International
14.	Oxygen Sensors:	Fuel cell O2 analyzer, Range -0-10000ppm or higher (Auto range), Accuracy: +/-2% of range, Resolution: +/-0.1% of range with calibration certificate National/International
15.	Purification Unit Regeneration:	Automatic PLC controlled with Ar/H2 Gas mixture, details to be provided.
16.	Purification Unit:	Glove box & Purifier from single manufacturer. Capable of purity <1 ppm H2O and O2 by Circulation. removable capacity O2 Minimum 30L, H2O Minimum 1000gms. Purifier material: Cu Catalyst, Molecular Sieves, independent solvent absorption unit Activated Carbon Solvent trap (3.5 Kg), integrated with a gas circulation blower.
17.	Blower:	Circulation Blower Minimum 45m3/hr. or Higher, Control by Manual ON/OFF
18.	Purge:	Automatic Purge Valve with 200ltrs/min or higher Purge capacity
19.	Tubing & Fittings	Stainless steel.
20.	Stand:	Stand attached to Glove box, height 900-920 mm, with castors& adjustable leg support for easy moving
21.	Power:	$240 \pm 10$ V, 50/60 Hz, details of receptacle/socket to be provided
22.	Warranty:	Three year
23.	Weighing Balance:	Weighing balance should be quoted max. weight range 200g with the resolution of 1mg upto 3 places after the decimal

- 1. Tenders should be addressed to, "Head of the Department, Department of Chemistry, Baba Saheb Ambdekar Road, New University Campus, University of Jammu, Jammu 180 006".
- 2. Delivery of goods should be FOR Department of Chemistry, University of Jammu, Jammu.
- 3. General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges upto FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu.
- 4. Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.
- 5. Firm shall be required to submit complete information/brochure/catalogue along with the offer.
- 6. Firm should submit an authorization certificate from principal firm for sale and service.
- 7. Concession to educational institutions, if any, should be clearly mentioned.
- 8. Products confirming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- 9. In case any item is your proprietary product or if you are sole manufacturer/distributor of requisite item, a certificate to this effect should be enclosed.
- 10. It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- 11. In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- 12. An undertaking should be submitted by your concern that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and your concern/firm has not sold your product to any other organization in India at lowest price than the price quoted in this offer.
- 13. A user list of the institutions/organizations where the quoted equipment has been installed and working successfully must be provided.
- 14. Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
  - (i) A bidder shall be debarred if he has been convicted of an offence—
    - (a) under the Prevention of Corruption Act, 1988; or

- (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
- (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
- (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- 15. All the pages of soft copy of the offer should be endorsed along with the stamp/seal of the firm.
- 16. It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- 17. Firm shall be required to submit the EMD/Bid security amounting to Rs. 34000/- in the form of bank guarantee/DD/CDR from any of the commercial banks which should remain valid for the period of forty five (45) days from beyond the final date validity period.
- 18. Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- 19. Successful bidders shall be required to submit performance security amounting to 10% of the quoted price pledged to <u>the Head</u>, <u>Department of Chemistry</u>, <u>University of Jammu</u>, <u>Jammu</u> in the form of bank guarantee from any of the commercial banks which should remain valid for sixty (60) days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- 20. Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened.
- 21. Item must be quoted alongwith the warranty as specified in technical specifications.
- 22. Technical specifications of the required instruments/equipments/articles are given above.

## <u>NO.: PGD/CHEM/19/360</u> <u>DATED: 27.06.2019</u>

## **NOTICE INVITING TENDERS FOR THE PURCHASE OF MUFFLE FURNACE**

Offers (rates and terms & conditions) alongwith detailed literature and specifications are invited from manufacturers/authorized distributors/dealers etc. for supply of following instrument with terms and conditions mentioned below:

## **TECHNICAL SPECIFICATIONS FOR MUFFLE FURNACE**

- 1. Chamber Size : 150mm (W) X 150mm (H) X 300mm (D)
- 2. Max. Temp. : 1700°C
- 3. Working Temp. : Upto 1600°C
- 4. Double Layer steel structure with air cooling to keep outer body temperature below 65°C
- 5. Heating Rate :  $0.2^{\circ}$ C/min to  $10^{\circ}$ C/min
- 6. Temperature Accuracy :  $\pm 1^{\circ}$ C
- 7. Temperature controller : PID temperature controller with minimum 4 program (with at least 64 Segments) and communication port for remote operations.
- 8. Safety : Over temperature protection mechanism.
- 9. Warranty: 1 year or more

- 1. Tenders should be addressed to, "Head of the Department, Department of Chemistry, Baba Saheb Ambdekar Road, New University Campus, University of Jammu, Jammu 180 006".
- 2. Delivery of goods should be FOR Department of Chemistry, University of Jammu, Jammu.
- 3. General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges upto FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu.
- 4. Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.

- 5. Firm shall be required to submit complete information/brochure/catalogue along with the offer.
- 6. Firm should submit an authorization certificate from principal firm for sale and service.
- 7. Concession to educational institutions, if any, should be clearly mentioned.
- 8. Products confirming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- 9. In case any item is your proprietary product or if you are sole manufacturer/distributor of requisite item, a certificate to this effect should be enclosed.
- 10. It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- 11. In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- 12. An undertaking should be submitted by your concern that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and your concern/firm has not sold your product to any other organization in India at lowest price than the price quoted in this offer.
- 13. A user list of the institutions/organizations where the quoted equipment has been installed and working successfully must be provided.
- 14. Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
  - (i) A bidder shall be debarred if he has been convicted of an offence—
    - (a) under the Prevention of Corruption Act, 1988; or
    - (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
  - (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
  - (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
  - (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- 15. All the pages of soft copy of the offer should be endorsed along with the stamp/seal of the firm.

- 16. It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- 17. Firm shall be required to submit the EMD/Bid security amounting to Rs. 11000/- in the form of bank guarantee/DD/CDR from any of the commercial banks which should remain valid for the period of forty five (45) days from beyond the final date validity period.
- 18. Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- 19. Successful bidders shall be required to submit performance security amounting to 10% of the quoted price pledged to <u>the Head</u>, <u>Department of Chemistry</u>, <u>University of Jammu</u>, <u>Jammu</u> in the form of bank guarantee from any of the commercial banks which should remain valid for sixty (60) days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- 20. Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened.
- 21. Item must be quoted alongwith the warranty as specified in technical specifications.
- 22. Technical specifications of the required instruments/equipments/articles are given above.

## <u>NO.: PGD/CHEM/19/361</u> <u>DATED: 27.06.2019</u>

## NOTICE INVITING TENDERS FOR THE PURCHASE OF ULTRASONIC CLEANER

Offers (rates and terms & conditions) alongwith detailed literature and specifications are invited from manufacturers/authorized distributors/dealers etc. for supply of following instrument with terms and conditions mentioned below:

## TECHNICAL SPECIFICATIONS FOR ULTRASONIC CLEANER

- 1. Ultrasonic cleaner having 5.7 liters or more capacity
- 2. Frequency: 40 kHz sound waves
- 3. Should have digital timer, power tracking, High/low power, Sleep, degas and heater
- 4. Should be provided with 304 SS tank or better and perforated tray
- 5. Timer for upto 90 minutes
- 6. Should be CE, CSA, UL certified
- 7. Two years warranty

- 1. Tenders should be addressed to, "Head of the Department, Department of Chemistry, Baba Saheb Ambdekar Road, New University Campus, University of Jammu, Jammu 180 006".
- 2. Delivery of goods should be FOR Department of Chemistry, University of Jammu, Jammu.
- 3. General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges upto FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu.
- 4. Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.
- 5. Firm shall be required to submit complete information/brochure/catalogue along with the offer.
- 6. Firm should submit an authorization certificate from principal firm for sale and service.
- 7. Concession to educational institutions, if any, should be clearly mentioned.
- 8. Products confirming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- 9. In case any item is your proprietary product or if you are sole manufacturer/distributor of requisite item, a certificate to this effect should be enclosed.
- 10. It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- 11. In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- 12. An undertaking should be submitted by your concern that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and your concern/firm has not sold your product to any other organization in India at lowest price than the price quoted in this offer.
- 13. A user list of the institutions/organizations where the quoted equipment has been installed and working successfully must be provided.
- 14. Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
  - (i) A bidder shall be debarred if he has been convicted of an offence—
    - (a) under the Prevention of Corruption Act, 1988; or

- (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
- (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
- (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- 15. All the pages of soft copy of the offer should be endorsed along with the stamp/seal of the firm.
- 16. It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- 17. Firm shall be required to submit the EMD/Bid security amounting to Rs. 3000/- in the form of bank guarantee/DD/CDR from any of the commercial banks which should remain valid for the period of forty five (45) days from beyond the final date validity period.
- 18. Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- 19. Successful bidders shall be required to submit performance security amounting to 10% of the quoted price pledged to <u>the Head</u>, <u>Department of Chemistry</u>, <u>University of Jammu</u>, <u>Jammu</u> in the form of bank guarantee from any of the commercial banks which should remain valid for sixty (60) days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- 20. Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened.
- 21. Item must be quoted alongwith the warranty as specified in technical specifications.
- 22. Technical specifications of the required instruments/equipments/articles are given above.

## <u>NO.: PGD/CHEM/19/359</u> <u>DATED: 27.06.2019</u>

## **NOTICE INVITING TENDERS FOR THE PURCHASE OF UV-VIS-NIR SPECTROPHOTOMETER**

Offers (rates and terms & conditions) alongwith detailed literature and specifications are invited from manufacturers/authorized distributors/dealers etc. for supply of following instrument with terms and conditions mentioned below:

# TECHNICALSPECIFICATIONSFORUV-VIS-NIRSPECTROPHOTOMETER

S.No.	Components	Specifications
1.	Wavelength Range	190–3300 nm or better
2.	Monochromator	Double beam/double out of plane monochromator with suitable gratings to provide best resolution of system with Below specification for main frame spectrophotometer.
3.	Spectral Bandwidth/ Band pass(nm)	0.17 to 5.00 nm with 0.01nm step (UV VIS) & 0.2 to 20nm (NIR) 0.04nm step or better
4.	Photometric Range	$\geq$ 6 Abs or better for UV-Vis & NIR Range or better
5.	Photometric Accuracy: DA method	0.0006 Abs or better
6.	Resolution	$\leq$ 0.17 nm (UV-Vis) and $\leq$ 0.2 nm (NIR) or better
7.	Wavelength Accuracy	± 0.2 nm or better (UV-Vis range) ± 0.8 nm or better (NIR range)
8.	Wavelength reproducibility (nm) Standard deviation of 10 measurements,	< 0.006 nm (UV VIS) & <0.1 nm (NIR) or better
9.	Photometric reproducibility (Abs) : 0.5 Abs, Standard deviation for 10 measurements	< 0.0008 Abs (NIST 930D@at 546.1 nm) or better
10.	Photometric stability (Abs/hour)	<0.0002 or better
11.	Stray Light	$\leq$ 0.0004% or better (at 220, 370nm and 1420)
12.	Source	Pre-aligned Tungsten Halogen source (Visible) Deuterium source (UV)

S.No.	Components	Specifications
13.	Detectors	Full range (UV-Vis-NIR) 190-3300 nm for main frame
1.4	Dessiling Flatman	Spectrophotometer system
14.	Baseline Flatness	Better than or equal to $\pm 0.0015$ Abs
15.	Noise Level UV/VIS (Abs/RMS)	Better than or equal to 0.00005, 0A and 500 nm (2 nm slit/SBW)
16.	Noise Level NIR (Abs/RMS)	Better than or equal to 0.004, 3A and 1500 nm (2 nm slit/SBW)
17.	Software	Compatible user-friendly software for operating the basic equipment.
18.	Sample Compartment	System must offer large sample compartment with two different independent sample compartments for standard transmission (Peltier) and reflectance module (DRA) or third party accessory
19.	Solid sample transmission Holder	Solid sample transmission holder for thin film/solid samples etc.
20.	Quartz Cuvettes & Peltier temperature controller	Pair of Quartz Cells of 3 ml capacity and 10 mm path- length for UV-VIS-NIR Range
21.	Accessories Required	Diffuse Reflectance Accessories 100 mm (with PMT/Pbs detector) 200-2500nm: 100 mm DRA with powder sample holders, transmission holder for thin films & cuvette holder.
22.	РС	Suitable Branded factor supplied PC with minimum i5 processor, 8GB RAM; Laser Printer; Minimum 3 KVA UPS with backup of 30 minutes or more
23.	Warranty	Two year from the date of installation including PC & UPS. After expiry of warranty the vendor must provide two years of AMC
24.	Training	Satisfactory training to users should be given by certified and trained Engineers at Jammu University
25.	Prices	Should be FOR site.
Option	nal Accessories	
26.	Temperature control Accessories (Sample & reference)	Temperature control accessories for sample & reference (0-60°C or better) with, Pump/fluid circulator

- 1. Tenders should be addressed to, "Head of the Department, Department of Chemistry, Baba Saheb Ambdekar Road, New University Campus, University of Jammu, Jammu 180 006".
- 2. Delivery of goods should be FOR Department of Chemistry, University of Jammu, Jammu.
- 3. General Sale tax/custom duty/excise/entry tax or any other tax, if any, should be clearly mentioned. Rates should be inclusive of custom clearance, insurance etc. It may kindly be noted that University of Jammu will not bear any cost/expenditure arising out of loss during transportation etc. Cost of equipment should include transportation charges and insurance charges upto FOR destination. University of Jammu is exempted from Custom Duty under DSIR registration. DSIR certificate shall be provided by the University of Jammu.
- 4. Firm shall be required to submit the End of Life of product. It shall be responsibility of the supplying firm/manufacturing firm to collect condemned instruments/its salvage whenever it is declared unserviceable/obsolete/end of life/beyond economic repair etc. Firm shall be required to submit EPR authorization issued by CPCB.
- 5. Firm shall be required to submit complete information/brochure/catalogue along with the offer.
- 6. Firm should submit an authorization certificate from principal firm for sale and service.
- 7. Concession to educational institutions, if any, should be clearly mentioned.
- 8. Products confirming to particular standards (ISO, ISI etc.) should be clearly mentioned.
- 9. In case any item is your proprietary product or if you are sole manufacturer/distributor of requisite item, a certificate to this effect should be enclosed.
- 10. It is at discretion of the competent authority to reject one/all tenders/part of tender without assigning any reason, thereof.
- 11. In case seller fails to complete in full, all deliveries of product in accordance with supply order; the seller shall be responsible for the liquidity damages. Thereafter the buyer, will have right to terminate supply order in the case of such delay beyond period mentioned by seller in the offer and buyer will have total discretion to buy product from the market/other supplier at the lowest rate.
- 12. An undertaking should be submitted by your concern that rates quoted in this offer are lowest/at par with rates quoted to other Govt./Semi-Govt. institution in the country and your concern/firm has not sold your product to any other organization in India at lowest price than the price quoted in this offer.
- 13. A user list of the institutions/organizations where the quoted equipment has been installed and working successfully must be provided.
- 14. Debarment of the bidding firms shall be governed by Rule No. 151 of GFR 2017; Ministry of Finance, GOI, as mentioned below:
  - (i) A bidder shall be debarred if he has been convicted of an offence—
    - (a) under the Prevention of Corruption Act, 1988; or

- (b) the Indian Penal Code or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- (ii) A bidder debarred under sub-section (i) or any successor of the bidder shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date of debarment. Department of Commerce (DGS&D) will maintain such list which will also be displayed on the website of DGS&D as well as Central Public Procurement Portal.
- (iii) A procuring entity may debar a bidder or any of its successors, from participating in any procurement process undertaken by it, for a period not exceeding two years, if it determines that the bidder has breached the code of integrity. The Ministry/Department will maintain such list which will also be displayed on their website.
- (iv) The bidder shall not be debarred unless such bidder has been given a reasonable opportunity to represent against such debarment
- 15. All the pages of soft copy of the offer should be endorsed along with the stamp/seal of the firm.
- 16. It may kindly be noted that in case a firm quotes NIL charges/consideration, the bid shall be treated as unresponsive and will not be considered.
- 17. Firm shall be required to submit the EMD/Bid security amounting to Rs. 80,000/- in the form of bank guarantee/DD/CDR from any of the commercial banks which should remain valid for the period of forty five (45) days from beyond the final date validity period.
- 18. Firms which are exempted to submit the EMD/Bid security shall be required to submit certificate issued by the concerned Ministry/Department.
- 19. Successful bidders shall be required to submit performance security amounting to 10% of the quoted price pledged to <u>the Head</u>, <u>Department of Chemistry</u>, <u>University of Jammu</u>, <u>Jammu</u> in the form of bank guarantee from any of the commercial banks which should remain valid for sixty (60) days beyond the date of completion of all contractual obligations of the suppliers including warranty obligations.
- 20. Financial bids of only technically qualified tenderers shall be opened. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened.
- 21. Item must be quoted alongwith the warranty as specified in technical specifications.
- 22. Technical specifications of the required instruments/equipments/articles are given above.