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Office of The Principal
Jhargram Raj College, Govt. of West Bengal
P.O. & Dist.-Jhargram, Pin-721507

Memo No: 321/DBT-1

Date: 27.07.2020

NOTICE INVITING TENDER

Quotations are invited from the manufacturers, authorized distributors and or suppliers for small equipment for the **Department of Chemistry** under the DBT star College grant (**San. No. 102/IFD/SAN/4679/2018-2019 dated 01.03.2019**). The interested manufacturers, authorized distributors/suppliers/dealers may submit quotations in the prescribed proforma (**Annexure I**) to the office of the Principal, Jhargram Raj College, Jhargram latest by **August 4, 2020**. Quotation in any other format will not be entertained and will be rejected outrightly. The Principal, Jhargram Raj College reserves the right to select the items (in single or multiple units) or to reject any quotation without assigning any reason. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected. Interested vendors may follow the instructions as given below for submission of their tenders through **speed post** only and no other mode of submission will be entertained due to COVID-19 pandemic situation. The envelope containing bid must clearly be **superscript the name of the Department and the memo number** of the tender notice.

For details, please visit College website- www.jrc.ac.in.

Terms and Conditions of Bid

1. Only manufacturer(s) or their sole authorized distributors/ agents are eligible to bid. Authorization letter in the prescribed format (**Annexure – II**) from original manufacturer in favour of authorized Agent to bid/conclude the order against this tender, must be enclosed with the technical bid.
2. All offers should be made in English and should be written in both figures and words. All offers should be quoted in INR currency and comprehensive maintenance for three years for all the equipment. The rates once accepted will remain valid for the period up to 31st March, 2021 and will not be changed under any circumstances.
3. No advance payment must not be claimed against any work order before the delivery of the items at a time to the Office of the Coordinator, DBT star College scheme, Jhargram Raj College.
4. No installation charge and post-sale service will be claimed at any circumstances.
5. The Rate should be quoted as per specification excluding of All Taxes. **The L1 bidder will be selected based on the quoted price of the materials excluding taxes.**
6. **Any distortion in the technical specification indicated and also all terms & condition as indicated by the tender inviting authority for any of the items will reject the entire bid of the bidder.**
7. The bidders must have successfully completed at least 3 similar orders in the central and the state government agency/institution. Copy of the purchase order must be attached with Technical Bid.
8. Signed & stamped compliance sheet of the technical specification with make and model of the equipment with technical printed literature along with Bill of Material (BoM) mentioning all the terms & conditions clearly, must be enclosed with the bid.
9. Photocopy of the financial statements with net profit, duly audited/certified by the chartered accountant (CA) of the last three financial years along with the copies of income tax return (ITR), IGST certificate, PAN No., current trade license and a cancelled cheque must be enclosed with the bid (**Annexure III**).
10. The tenderer should not have been debarred or blacklisted by any Central/State Government Departments of India. Self-declaration in their letter head must be enclosed with the technical bid in prescribed format. The proforma of the self-declaration is attached with the tender as **Annexure –IV**.
11. The tender bid will be out rightly rejected if it comes to the notice of the tender inviting authority during scrutiny that the credential or any other paper of a tenderer is fabricated etc. and the tender inviting authority shall verify the above mentioned documents (In original) which are mandatory for the participation before issuance of the work order.

12. The tenderer viz. the Indian Agents and / or the foreign firms should furnish a certificate that the rates quoted by the tenderer are not more than those quoted to any other Institution in India or abroad during the last one year, with supporting documents.
13. In case of any dispute, the College's decision will be treated as the final and conclusive. All legal actions are subject to Kolkata jurisdiction only.
14. The delivery should be made to the office of the coordinator, DBT Star College within seven (07) days from date of issuance of work order (**All the items at a time**). The supplied items will be physically verified and compared with the detail specification of individual items by the coordinator during delivery.
15. The violation of any of the conditions will entitle cancellation of the order.
16. Payment of bills on its production will be made after successful supply of the items within stipulated time, after the successful installation of each and every individual.
17. Any postal delay will not be entertained and bids reach after 5.00 pm of the stipulated date (4th August) will not be accepted. Please post your bids well in advance to avoid postal delay.

Itemised Detail Specification with Make and Model

| Sl No. | Name of the instruments | Technical Specification | Make | Year of post-sale service required |
|--------|--|--|--------------------------------------|------------------------------------|
| 01 | Automatic Microcontroller Based Bomb Calorimeter | Automatic Microcontroller Based Bomb Calorimeter with Automatic measurement & mathematical calculation, USB interface for sending data to PC, Full test report printout by inbuilt thermal printer, Weight of sample, water equivalent & sensitivity can be set through keypad on single page and Automatic detection of temperature rise & fall. Technical specifications Operational Principle: Isothermal Fundamental Standards: BIS-1350 (Part-2), IP-12/63T Inner Vessel: Electroplated Copper Outer Jacket: Electroplated Copper and water Filled Bomb Design: Either Schrader Valve or Pin Valve Design Bomb: Removable Vessel: Fixed Vessel Design Automatic Oxygen Filling: Available Oxygen Filling Time: <1 Minutes Pressure Regulator: Automatic Sensor: Dual Sensor for both Vessel and Jacket Temperature Resolution: 0.001oC (Main Sensor) R.S.D: 1% with Benzoic Acid Range: Upto 12000 Cal/g Temperature Display: Built-in display Experiment Modes: Selectable Auto or Manual Stirrer: Compact 12V DC Bomb Firing: Selectable Auto or Manual Printer Facility (Temp v/s Time): Throw external Printer Calculation: Selectable Auto or Manual Memory: Available Testing Time: 15-20 Minutes Operating Temperature: 15-35Å, °C Power Input: <1.0KW Power Requirement: 230V+10V, 50 Hz Display: 128x64 Graphical LCD Keypad: 20 keys Temperature Resolution: 0.010C Internal Memory: 1000 logs with date and time | Advanced Research Instrument Company | Three |

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|----|---|--|---|-------|
| | | Interface: USB interface to PC Printer: Inbuilt thermal printer Time Clock: Real time clock with battery backup Power supply: 230V $\pm 10\%$ /50Hz Steel drum: Safety valve for high pressure Bomb with sample holder: Oxygen pressure gauge Stirrer: Benzoic acid powder Temperature Probe: USB lead Chrome wire: Toll kit Pallet press: Operation manual Cotton thread: Power supply cable (Main lead) Accessories Combustion Bomb (Standard), Combustion Bomb (Halogen Resistant), Crucible (Stainless Steel), Crucible (Quartz), Crucible (Platinum) | | |
| 02 | Automatic Microcontroller Based Bomb Calorimeter | Automatic Bomb Calorimeter Salient Features Technical Specifications Display: 128x64 Graphical LCD Keypad: 20 Keys Temperature resolution: 0.01°C Internal Memory: 1000 logs with date and time Interface: USB interface to PC Printer: Inbuilt thermal printer Time Clock: Real time clock with battery backup Power supply: 230V $\pm 10\%$ /50Hz Standard Accessories Steel drum: Safety valve for high pressure Bomb with sample holder: Oxygen pressure gauge Stirrer: Benzoic acid powder Temperature probe: USB lead Chrome wire: Toll kit Pallet press: Operation manual Cotton thread: Power supply cable (Main lead) | Labtronics (Model No: LT-1160) | Three |
| 03 | Microcontroller based digital pH meter | Technical Specification: Dimension (mm): 235 x 185 x 85 Weight: 1.25 kg pH Range: 0 – 14 Millivolt Range: 0 to ± 1999 mV Slope correction: 85% to 115% Resolution: 0.01 pH, 1 mV in mV mode Repeatability: ± 0.01 pH ± 1 digit for pH Standardization range: ± 1 pH Temp compensation: 1 to 100 °C digital display Display: 3 ½ digit red LCD seven segments Polarization current: 10 μ A Recorder Output: ± 10 mV/pH in pH mode ± 10 mV/100 mV in mV mode Power: 230 V $\pm 10\%$ 50Hz Accessories: combined electrode, clamp and stand | SYSTRONICS (Model 902) | Three |
| 04 | Digital Potentiometer with Pt, Silver & calomel Electrode | Digital Potentiometer with combined Pt.& Reference electrode or Pt. and Ref. electrode Technical Specification: Dimension (mm): 235 x 185 x 85 Weight: 1.25 kg mV Range: 0 to ± 1999 mV | SYSTRONICS (Model 318) | Three |

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|----|---|--|------------------------|-------|
| | | Polarization current: 10 μ A for metal and metal electrode Input impedance: 1011 ohms Polarity: Automatic Power: 230 V AC \pm 10%, 50 Hz Set Zero range: 0 to \pm 1500 mV input Display: 3 ½ digit LED Over Range: Last three-digit blinking Magnetic stirrer: in built with variable control Stirrer speed: 0 to full speed | | |
| 05 | Conductivity Meter with cells and temp. probe | Conductivity Meter with 1 cell constant cell, 0.1 cell constant cell, Temp. probe with temp. probe (Pt 100 sensor) and clamp & stand Technical Specification: Dimension (mm): 210 x 220 x 105 Weight: 1.7 kg Source Frequency: 100 Hz or 1KHz automatically selected Conductivity range: 0 μ S – 20 mS with 0.1 cell constant and 0 μ S – 200 mS with 1 cell constant in 5 decadic ranges. TDS Range: 0 ppm – 20 ppt with 0.1 cell constant and 0 ppm – 200 ppt with 1 cell constant decadic ranges TDS Resolution: 0.01 ppm in lowest range with cell constant of 0.1 Conductivity Resolution: 0.01 μ S is the lowest range with cell constant of 0.1 Temp. resolution: 1°C Accuracy (conductivity/TDS and Temp): \pm 1% of f.s \pm 1 digit and \pm 1°C \pm 1 digit Cond. Cell compensation: 0.09 to 0.11 (0.1 cell constant) and 0.9 to 1.1 (1 cell constant) TDS factor: 0 to 1.00 Cond. Tempco range: 0.0 to 10.0% per °C Temperature range: 0 °C – 1000 °C (Auto / Manual) Temp sensor: PT 100 Power: 230 V \pm 10% 50 Hz Readout: 3 digits LED | SYSTRONICS (Model 308) | Three |
| 06 | Water (Analyzer (Colorimeter, D.O., Cond., TDS, pH, Salinity, Temp.)) | Water Analyzer (Colorimeter, D.O., Cond., TDS, pH, Salinity, Temp.) Technical Specification: Dimension (mm): 295 x 300 x 145 Weight: 3.00 kg Measurement of pH Range: 0 to 14 pH Resolution: 0.01 pH Repeatability: \pm 0.01 pH \pm 1 digit Deviation of buffer: \pm 0.5 pH Calibration point: 2, 3, 4, 5 Standard buffer: 1.6979, 4.004, 7.00, 9.183 and 12.454 (NIST standard) User Buffer: 0 to 14 pH (User Choice) mV Range: 0 to \pm 1999 mV Resolution: 1 mV Repeatability: \pm 1 mV \pm 1 digit Electrical conductivity Range: 0.2 μ S to 200 μ S (6 decadic range) Resolution: \pm 1% of F.S \pm 1 digit Resolution: 0.01 μ S in lower range Cell constant: 0.1 to 5.0 | SYSTRONICS (Model 371) | Three |

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|----|---|---|-------------------------|-------|
| | | <p>TDS Range: 0.2 ppm to 200 ppm ppt (6 decadic range) Accuracy: $\pm 1\%$ of F.S ± 1 digit TDS factor: 0.1 to 0.99 at 2.0% Tampco Cell constant: 0.1 to 5.0 Salinity Range: 0.1 to 40 ppt (> sea water) Resolution: 0.1 ppt Accuracy: $\pm 2\%$ of F.S ± 1 digit Cell constant: 1.0 C.C. EC/TDS/Salinity AC voltage source: 100 Hz Temp Co-efficient: 0.00% to 9.99% Batch ID No: 1 to 10 Sample Id No. 1 to 50 Temperature Range and compensation for pH/EC/TDS and Salinity Automatic and ManualTemp. Range: 0°C to 99.9 °C with PT 100 sensor Memory Calibration and data storage Data backup: Max 500 (50 x 10) Display: 240 x 128 monochromatic LCD RTC: Date and time RS-232 port: PC link data transfer Power: 230 V AC $\pm 10\%$, 50 Hz Accessories pH combined electrode Glass -conductivity cell 1.0 C.C $\pm 10\%$ Glass -conductivity cell 0.1 C.C $\pm 10\%$ Temp. Probe (PT 100 sensor) Clamp/Stand</p> | | |
| 07 | Magnetic stirrer with digital speed indicator | <p>Technical Specification: Stirring Capacity: 1Ltr or External Dimensions (mm): 150 x 220 x 150 Stirring Paddle (PTFE Coated): 9 x 25 mm</p> | REMI (MS-500) | Three |
| 08 | Motorless magnetic stirrer | <p>Motorless magnetic stirrer, Maximum speed 1500 rpm, capacity 800 ml</p> | REMI (MS-800 PLUS) | Three |
| 09 | Magnetic stirrer with Hotplate (with Digital Speed Indicator) | <p>Technical Specification: Stirring Capacity: 1Ltr Heating Capacity: 150 watts External Dimensions: 200 x 225 x 185 Stirring Paddle (PTFE Coated): 9 x 25 mm</p> | REMI (1 MLH) | Three |
| 10 | Digital Automatic spectrophotometer | <p>Technical Specification: Dimension (mm): 420 x 310 x 125 Weight: 6.5 Kg Wave length Range: 340-960 nm Wave length accuracy: 5 nm Wave length display: dial Spectral bandwidth: 10 nm Photometric accuracy: ± 0.005 Abs at 1.00 Abs Photometric resolution: 0.1% T, 0.001 abs Photometric read out: 4-digit 7 segment LED Grating: 600 line/mm Source: Tungsten Halogen lamp Detector: Wide range silicon photodiode Sample Holder: single position 10 mm cuvette holder Min. sample volume: 1 ml in 4 ml cuvette Measuring mode: Auto, %T, Abs and concentration</p> | SYSTRONICS (Type - 108) | Three |

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|----|--------------------------------------|---|--------------------------------------|-------|
| | | Power: 230V \pm 10%, 50 Hz Accessories: a) two quartz cuvette + two glass Cuvette | | |
| | Digital Automatic Polarimeter | Technical specification Specification Measuring range - $\pm 200^\circ$ (sugar scale) $\pm 70^\circ$ (optical rotation) Accuracy: $\pm 1^\circ$ (full scale) Resolution: 0.01 ⁰ Display: Graphical LCD (128X64) Keys: 4-keys for menu operation Calibration mode: 2 point (Zero & span) Interface: USB RTC: In-built clock with data and time display Data storage capacity: 1000 Logs with data & Time Power supply: 230V/AC \pm 10%, 50Hz | Labtronics (LT-740) | Three |
| 11 | Ultraviolet inspection cabinet | Technical Specification: Material: Mild Steel (SS Body) Voltage: 220 V Wave Length: 254-365 mm Frequency: 50 Hz | Tarson or Any Reputed brand in India | Three |
| 12 | Digital Melting point apparatus | Technical Specifications: Display: 4 Digit Seven Segment LED display Temperature 0-300 $^\circ$ C Resolution: 1 $^\circ$ C Capillary glass tube: 100mm long, 0.8 to 1.1mm internal diameter Boiling Point: 6x75mm glass tube Sample Size: Fine powder properly dried at a temperature considerably below its melting point, 4 to 6 mm high Oil-bath: Silicon oil bath beaker – 200ml capacity with Teflon cover fitted with oil immersion heater. It is having three holes for holding the capillaries, one for boiling point tube and one for thermometer Stirrer Speed: Controllable with front knob Power: 230V \pm 10% AC, 50Hz Weight: 6 Kg (Approx) Accessories: 2 Box of Capillaries (200 No) Glass Tubes for Liquid Sample (6x75 mm)- 2 Nos Magnetic Capsule Bottle of Silicon oil – 500ml Glass Cylindrical Beaker with Teflon cover fitted with immersion heater Instruction Manual, Dust Cover. | (Labtronics (LT-115)) | Three |
| 13 | Oil free pump | Technical Specification: Max Vacuum Range 60 psi Rockyvac Oil Free Compressor 7112 Maximum Pressure: 100 psi (without moisture trap) Maximum Pressure: 80 psi (With Moisture trap) Maximum Current: 0.4 A Max. flow : 14 l/min Motor rotation : 1700 RPM Horse power : 1/8 HP Noise level : 50.0d Power Supply:220 Volt, 50 Hz Capacitance: 24 μ f, 450 Volt Port thread: 5/16" | Tarson (Rocker 440) | Three |

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|----|--------------|--|----------------|-------|
| 14 | Refrigerator | Power Output: 85 W Laboratory Refrigerator Technical Specification: Capacity: 400 Ltrs Cooling type: Frost free Cooling efficiency: Uniform cooling by force air circulation Temperature range: 1°C to 10°C No. of glass door: 1 (with clear visibility with dual glass) Baskets/Shelves: 4 (adjustable wire coated plastic mesh) External dimension (mm): 582 x 584 x 1702 Inner body: Chemical resistance Plastic Outer body: Coated GI sheet Internal temperature Display: Digital Alarm System: Yes | REMI (RLR-400) | Three |
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Principal/Officer-in-Charge,
Jhargram Raj College.

OFFICER-IN-CHARGE
JHARGRAM RAJ COLLEGE

Memo No.

Date 27.07.2020

Copy forwarded for information and taking necessary action to:

1. The Hon'ble District Magistrate, Jhargram
2. The Sub-Divisional Officer, Jhargram.
3. The Treasury Officer, Jhargram.
4. The Block Development Officer, Jhargram.
5. The Post Master, Jhargram.
6. The Chairman, Jhargram Municipality.
7. Dr. Gariam Gupta, Program officer, DBT, GoI, New Delhi
8. Dr. Tapas Kr. Adalder, Coordinator, DBT Star College Scheme, Jhargram Raj College.
9. College Notice Board.
10. Mr. Sayantan Roy, Convener website committee, Jhargram Raj College

Principal/Officer-in-Charge,
Jhargram Raj College.

OFFICER-IN-CHARGE
JHARGRAM RAJ COLLEGE

⑥ 27/7/20

Proforma for Quotation (Annexure I)

| Sl. No. | Name of the instrument | Technical specification with make and model | Whether technical printed literature along with Bill of Material (BoM) submitted or not | Catalogue Price (INR) | % of discount on the catalogue price | Rate excluding GST after Discount |
|--------------------|-----------------------------------|--|--|----------------------------------|---|--|
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Annexure – II

FORMAT FOR MANUFACTURER'S AUTHORISATION LETTER TO AGENT (on letter head)

Ref. No. Date:

To,
The Principal/Officer-in-Charge,
Jhargram Raj College,
Jhargram,
West Bengal 721507

Sub.: Authorization Letter

Dear Sir, We, _____, who are established and reputed manufacturers of _____, having factory at _____, hereby authorize M/s. _____ (name & address of Indian distributor /agent) to bid, negotiate and conclude the order with you for the above goods manufactured by us.

We shall remain responsible for the tender / contract / agreement negotiated by the said M/s. _____, jointly and severally.

We ensure that we would also support / facilitate the M/s _____ on regular basis with technology / product updates for upgradation / maintains / repairing / servicing of the supplied goods manufactured by us.

In case duties of the Indian agent / distributor are changed or agent / distributor is changed it shall be obligatory on us to automatically transfer all the duties and obligations to the new

Indian Agent failing which we will ipso-facto become liable for all acts of commission or omission on the part of new Indian Agent / distributor.

Yours faithfully,

[Name & Signature] for and on behalf of M/s. _____ [Name of manufacturer]

Note: This letter of authorisation should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer. A copy of notarised power of attorney should also be furnished.

Bidders Information (Annexure-III)
(On bidder letterhead)

1. Name of the party (In Capital letter):

2. Permanent address (proof needed):

3. (a) Name of the Contact Person
(b) Contact No.
(c) Email.ID

4. Communication address (proof needed)

5. Trade license No. & date: (Renewed)

6. (a) PAN card No. (Business):
(b) (GST No.)
(c) Annual Turn Over (Prof Needed)

7. Nature of business

8. Bank detail (Kindly attach scanned copy of one Cheque)
 - a. A/C No.

 - b. Name of the Bank and Branch

9. Other Relevant Information of the Bidder:

N. B.: Copy of the documents should be furnished along with the application. I declared that all terms and conditions will be followed by me and the submitted documents are true to the best in my sound knowledge and belief.

Dated:

Signature of Party (With seal)

Annexure-IV

FORMAT FOR self-declaration of NON-BLACKLISTING OF SUPPLIER (On letter Head)

I/ We _____Manufacturer/partner/Authorized Distributor/Agent (strike out which is not applicable) of (Supplier) _____ do hereby declare and solemnly affirm that the individual/firm/company is not black-listed by the Union/State Government/Autonomous body. We hereby confirm that the we will withdraw our bids if the tender inviting authority find us guilty of blacklisting by any authority across the country or the tender inviting authority can cancel our entire bid at any point of tender process.

Signature of the Deponent

Address _____