



REF:NIT/50/G-51

DATE: 04.03.2022

NOTICE INVITING e-TENDER (NIeT)

WORK NAME: PROCUREMENT, SUPPLY AND INSTALLATION/COMMISSION (WHEREVER NECESSARY) OF LABORATORY EQUIPMENT AND APPARATUS FOR DEPARTMENT OF CHEMISTRY, ENGLISH, PHYSICS AND ZOOLOGY OF TAKI GOVERNMENT COLLEGE

Online E-Tender is hereby invited by the Office of the Principal, Taki Government College from reputed, registered, and professional supply agencies for supplying different Laboratory Equipment and apparatus **FOR DEPARTMENT OF CHEMISTRY, ENGLISH, PHYSICS AND ZOOLOGY** by the eligible vendors for the Financial Year 2021-2022. Prequalifying documents in a separate cover and Bid documents with BOQ rate in another cover are to be submitted by the eligible bidders who satisfy the terms and conditions detailed below. **Price should be quoted in INR currency inclusive of all taxes.** Intending bidders may download tender documents from e-procurement portal of the Government Website **www.wbtenders.gov.in**. The pre-qualifying and bid documents duly filled in all respects should be submitted on-line (**as per Server Time**). The college Authority at Taki Government College does not take any responsibility for the delay caused due to non-availability of internet connection or poor connectivity, etc. For online bids.

List of Items to be Purchased:

1. Department of Chemistry			
Sl No.	Item	Specification	Quantity
1.1	Rotary Evaporator with Chiller	For Rotary Evaporator: Rotary Bottle: 1L 24# (standard mouth); 1L 35# (standard mouth); Condenser: Vertical $\phi 85 \times 460$ mm, 29# (standard size); Rotary Speed: 0-120 rpm; Vacuum: 0.098 Mpa; Temp. Range: RT~400 $^{\circ}$ C; Stroke Height: 120mm; Rotary Power: 30W; Heating Power: 1.5KW; Shelf Material: Stainless steel; Chamber Material: SS 250 *140mm; Plate size: 280 *330mm;	1

		Power Supply: AC220/110V±10%,50/60Hz. For Chiller: Tank Volume: 6L; Tank Material: Stainless Steel; Circulating Pump Flow: 20L/Min; Pump Lift: 4feets; Temp. Control Range: -10 to RT; Circulation Pump Power: 100W; Power Supply: AC220V	
1.2	Digital pH meter	[Systronics Digital pH meter 335]	1
1.3	Digital Potentiometer	[Equiptronics Digital potentiometer EQ 602]	1
1.4	Digital Conductivity meter	[Systronics Conductivity meter 304]	1
1.5	Digital Photoelectric Colorimeter	[Systronics Digital Colorimeter 112]	1
1.6	Polarimeter	[Eastern Instruments]	1
1.7	Hot air oven	[45 L Stainless Steel Chamber 14×14×14 inch]	1
1.8	Magnetic Stirrer with hot plate	[Max heating temp upto 100°C, speed range: 0-2200 rpm, Stirring capacity: 2L]	1
1.9	Meltingpoint apparatus	[to determining melting point upto 350°C, 3 capillary tube with one mercury thermometer holding capacity]	1
1.10	Digital water bath	[Inner chamber with Lid: Stainless Steel; Outer Chamber: Mild Steel duly powdered coated, Power: 220V/50Hz, Holes Diameter: 75 mm, Number of holes: 8]	1
1.11	Double Distillation set up	[borosilicate glass tabletop horizontal model, Power: 220V/50Hz, Capacity: 5L]	1
1.12	Oil free suction pump	[borosilicate glass filtration flask, capacity one litre vacuum pipe, oil free vacuum pump 15 litre]	1
1.13	Ultrasonic Cleaner	[3L with Lid, Inner and outer body made up of stainless steel, Timer setting with LED display, overheat protector, cooling fan, moisture proof, 40khz frequency]	1
1.14	Micropipette	(200µl and 1ml) [complete set with calibration certificate]	1
1.15	Fume hood	[complete set up; construction material should be made of either	1

		stainless steel or plastic]	
2.	Department of English		
Sl No.	Item	Specification	Quantity
2.1	Hand mike	(Ahuja or Philips Type)	1
2.2	Vacuum Cleaner	(Philips Type)	1
3.	Department of Physics		
Sl No.	Item	Specification	Quantity
3.1	To estimate the Wavelength & Velocity of Ultrasonic Waves in a Liquid by Studying the Diffraction through Ultrasonic Grating	[Complete Set]	1
3.2	To Study the Polarization of Light for Air-Glass Interface	[Complete Set]	1
3.3	To verify Fresnel's formula for reflection of polarized light incident on a dielectric interface	[Complete Set]	1
3.4	To estimate the Boltzmann Constant using V-I characteristics of PN Junction Diode	[Complete Set]	1
3.5	To determine the Refractive Index of Glass & Liquid by Total Internal Reflection (TIR) using Wollaston's Air - Film	[Complete Set]	1
3.6	To analyze Elliptically Polarized Light by Babinet's Compensator	[Complete Set]	1
3.7	To measure the Dielectric Constant of Dielectric Materials with Variable Frequency	(SES Make Type) [Complete Set]	1
3.8	To study the characteristics of a Ferroelectric Crystal	(SES Make, Model DEC-01 Type) [Complete Set]	1
3.9	To determine the Temperature Coefficient of a Semiconductor using NTC Thermistor	(SES Make Type) [Complete Set]	1
3.10	To Measure the	(Quinck's Tube Method) (SES Make,	1

	Susceptibility of Paramagnetic Solution	Model QTX-01 Type) [Complete Set]	
3.11	To Measure the Magnetic Susceptibility of Solids	(SES Make, Model- GMX-01 Type) [Complete Set]	1
3.12	Determination of Refractive Index of a Dielectric Film using Surface Plasmon Resonance	(SPR) (SES Make, Model DC-600 Type) [Complete Set]	1
4.	Department of Zoology		
Sl No.	Item	Specification	Quantity
4.1	Binocular	(Built-in dioptric correction, Anti-reflective lens coating, High quality finish with a rubber grip coating, Central focus knob, UV protection)	1
4.2	pH METER HPG 5-point system with LCD	(Microprocessor based pH meter, 5 point calibration, with large LCD display with manual/auto temperature compensation, Range: pH: 0 to 14.00, mV: 0 to ± 1999 ; Accuracy: pH: ± 0.02 , pH ± 2 Temp. comp.: 0 to 100°C Auto; Power required: 230 V AC $\pm 10\%$ 50 Hz)	1
4.3	Sonicator Bath	(Inner tank and outer body Stainless steel, Digital display with timers, ceramic heaters with, cooling fan, , Heating temp: 0-80°C, Frequency: 40kHz Capacity: 12 lit)	1
4.4	MAGNETIC STIRRER	(Digital display with various size magnets. 2 lt. capacity)	1
4.5	Microwave Oven	(Convection type, 28 lit capacity, Samsung type)	1
4.6	BALANCE: precision 10 mg to 200mg	(Capacity: 1000gm, Readability: 0.01gm(10mg), Technology: Load Cell, auto external calibration. LCD display, Tare Range: full)	1
4.7	BALANCE: precision 0.10 mg to 10mg	(Alternatively Capacity: 220gm, Readability: 0.0001gm (0.1mg), tare range: full, auto calibration during startup, touch screen display)	1

1. General Instructions:

Intending bidders may download the tender documents from the website: www.wbtenders.gov.in directly with the help of Digital Signature Certificate (DSC). **The rates should remain valid till the supply and proper installation of the equipment.**

2. Submission of bids:

Both Technical bid and Financial Bid are to be submitted concurrently duly digitally signed by the Company personnel who is in the pay roll of the Company (having Authorization from the Company management) in the website www.wbtenders.gov.in. All papers must be submitted in English language. The Technical document and Financial Bid should be submitted online on or before as per the 'Date & Time Schedule' stated in Clause No.11.

3. The eligibility criteria are given below: -

- a. The Rate should be quoted as per specification including All Taxes, Packaging and Delivery charges (if any).
- b. The delivery should be made to the Office of the undersigned within 15 days from date of issuance of Award of Contract.
- c. The rates should remain valid for the period up to 31st March 2022, subject to actual market price.
- d. The tender should be submitted in the proforma enclosed herewith.
- e. The violation of any of the conditions will entitle cancellation of the order.
- f. Scan copy of form of Income Tax return for the last three financial year, GST Registration certificate, PAN No., Current Trade license, P.Tax(2020-21), other related licenses and registration certificates, if any, and also other credentials have to be submitted/uploaded in the portal.
- g. The tender inviting authority shall verify the above-mentioned documents (In original) which are mandatory for the participation before issuance of the Award of Contract (AOC).
- h. The prospective bidders as a primary agency should have satisfactorily completed the supply to any Government or private Organisation for at least three (03) years.
- i. **The bidders are to submit the tender papers item-wise.**
- j. Payment of bills on its production will be made after successful supply of the items within reasonable time.

- k. The tender bid will be outrightly rejected if it comes to the notice of the tender inviting authority during scrutiny that the credential or any other paper of a bidder is false or have been fabricated etc.
- l. The undersigned reserves the right of accepting or cancelling the tender without assigning any reason.
- m. To qualify for a Package of contracts made up of this and other contracts for which bids are invited in the NIT, the bidder must demonstrate having experience and resources sufficient to meet the aggregates of the qualifying criteria for individual contracts.
- n. If necessary, the College Authority may ask the bidders to submit relevant technical documents at the College office.
- o. If more than one bidder qualifies as L1 Bidder, then College Authority has the right to select L1 bidder with highest technical qualifications along with mentioned criteria:
 - i) Highest average annual turnover of last 3 financial years (2018-19, 2019-20, 2020-21) as per the Audited Financial Statements. (All Financial Statements should bear Audited certification).
 - ii) Consideration of ISO certification.
- p. **No conditional/incomplete Quotation will be accepted under any circumstances.**

4. Delivery of the articles to be made by the agency to Taki Govt College situated at "Taki, P.S.-Hasnabad, District : North 24 Parganas , Pincode : 743429, West Bengal".

5. Earnest Money Deposit (EMD):

Payment of Rs. 30,000.00 as Earnest Money Deposit(EMD) will be through Online Payment Mode either through NEFT/RTGS OR NETBANKING, as per Finance Order No. 3975F(Y) dated 28/07/2016, read with Finance Order No.2365-F(Y) dated 12/04/2018. In case the bidders possess any relevant document regarding waiver of EMD, issued by competent authorities, then the same must be scanned and uploaded in the EMD Exemption Part.

6. Statutory Documents:

Technical Folder:

- 1. NIT must be downloaded and the same must be uploaded in the Technical Document folder.

2. Annexures – I to V must be filled up properly as Instructed and the same must be Scanned and uploaded in the Technical Document Folder.

7. My Document (Non-Statutory Cover) containing as follows:

Sl No.	Category	Sub-category	Sub-category Description
1.	Certificates	Certificates	PAN Card of the Bidder 1.GST Registration Certificate & GSTR 3B of last 3 months. 2. IT Returns for the Last 3 Years i.e. (2018-19, 2019-2020, 2020-2021) 3. Copy of ESI & EPF Registration Certificate & Latest Challan 4. Copy of P. Tax Registration Certificate & Latest Challan of deposit of P.Tax& Copy of P. Tax Enrolment Certificate, P. Tax Challan (current)
2.	Company/Firm Details	Company Details	1. Latest Trade Licence for Proprietorship Firm 2. Latest Trade Licence and Partnership Deed for Partnership Firm. 3. Latest Trade Licence and Memorandum & Certificate of Incorporation for Private Limited Company. 4. Latest Trade Licence and Society Deeds for Societies.
3.	Credential	Credential 1	Copy of the order for having experience in similar nature of work at least for last three (3) years in any Government Department.
4.	Financial Information	Financial Information	PL AND BALANCE SHEET – 2018-2019 PL AND BALANCE SHEET – 2019-2020 PL AND BALANCE SHEET – 2020-2021

8. Disposal of Disputes:

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.

9. **Inspection:** Before submitting the tender, the intending tenderers should thoroughly acquaint themselves with the proposed supply and installation by local inspection of site and make into consideration the site condition and other criterion for effecting smooth supply. No claim whatsoever will be entertained afterwards.

10. Discretion of the College:

- a. College may take decision about non-purchase of the said equipment even after selection of vendor due to fund constraints, change in Government policy etc.

- b. College may seek documents from the bidder in addition to the scanned documents sent by them at the time of uploading technical bid for verification and evaluation of tender.
- c. College reserves the right to relax any clause as stated hereinabove for selection of responsive vendor.

11. Date and Time Schedule of the E-tender:

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	04-03-2022 after 1:00 PM
2	Documents download /sale start date (Online)	04-03-2022 after 1:00 PM
5	Bid submission start date (Online)	04-03-2022 after 1:00 PM
6	Documents download /sale end date (Online)	18-03-2022 after 1.00 PM
7	Bid Submission closing (Online)	18-03-2022 after 1.00 PM
8	Bid opening date for Technical Proposals (Online)	21-03-2022 After 11:00 AM

**Officer-in-Charge
Taki Government College**

Note: Once selected, the credentials of the Agency will be sent to the Higher Authorities for approval, the Work Order will be issued as and when the College receives the final approval from the appropriate Authority.

ANNEXURE I

APPLICATION FOR TENDER

(To be furnished in the Company's official letter pad with full address, contact no, E mail)

To
The Principal
Taki Government College
Govt. of West Bengal
Taki, Dist- North 24 Parganas
Pin- 743429

Sub: NIT for the Supply of different Equipment for the **Department of**
of Taki Government College

Ref: - _____ N.I.T. Nodated

Sir/Madam,

Having examined the pre-qualification & other documents published in the N.I.T, I/we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of
.....in the capacity duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure IV.
2. We accept the terms and conditions as laid down in the tender document and declare that we shall abide by it throughout the tender period including its extensions, if any.
3. We have gone through the Tender Document thoroughly and quoted the tendered items keeping in mind all sorts of information as furnished in the tender document including Corrigendum/Addendum as published from time to time
4. We are offering rate for the following item /items with manufacturing capacity and assured supply to the Taki Government College.

Sl. No.	Item	Specification	Quantity	Offer Validity

5. In the event of being selected, I will make the supply within the stipulated period excepting the condition which is beyond our control.

Date :

Signature of applicant including title and
capacity in which application is made.

Contact no:

E-mail address:

Postal Address:

ANNEXURE II

FURNISHING BASIC INFORMATION

(To be furnished in the Company's official letter pad with full address, contact no., E mail)

1	Name of the Bidder	
2	Address for Communication	
3	Contact Number(s)	
4	E-mail ID	
5	Trade License No. (Please enclose copy of Trade License)	
6	PAN (Please enclose copy of PAN Card)	
7	GST No. (Please enclose copy of GSTN)	
8	Do you have previous experience for supplying similar nature of Items at Educational Institute of Higher Learning? (Please enclose copy of Award of Contract order & user list, if yes)	Yes/No (Please put tick mark)
9	Annual Turnover as per Audited P/L ACCOUNTS & BALANCE SHEET	FY 2018-19: Rs..... FY 2019-20: Rs..... FY 2020-21 : Rs..... Average Annual Turnover: Rs.....
10	Status of the bidder (Please enclose copy authenticating your status)	Manufacturer/Dealer/Distributor/Selling Agent/Stockiest/Supplying Agent (Please put tick mark)

I hereby declare that the above information is true and correct to the best of my knowledge and belief. In case of any false/wrong/misleading information, I shall be bound to accept the decision taken by the College.

**Signature of the Bidder
(With Seal)**

ANNEXURE III

(Affidavit Proforma)

(To be furnished in Non – Judicial Stamp paper of appropriate value duly notarized)

I, Sri/Smt.

The Managing Director/Proprietor (etc.) of the Firm.,

.....(Name of the firm)

At (address).....

do hereby solemnly affirm and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to supply of Chemicals/Equipment/ other items to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
2. That no case is pending against me or against my firm in any criminal court of law regarding supply of Chemicals, Lab. Chemicals & Laboratory Equipment, and other items to the Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States (If any case is pending, state the details).
3. That, I also declare that if any information is subsequently found incorrect or false, it will automatically render the tender submitted by me as cancelled and make me liable for penal/legal action as per appropriate legal provisions of the country.
4. That my concern has not yet been declared bankrupt by any banking or money lending agency duly licensed by RBI nor has it been considered doubtful by any Government concern so far as the solvency of the organization is concerned.
5. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

ANNEXURE IV

(Authorization letter in favour of the applicant (other than Managing Director/
Proprietor/Partner) from the competent authority.)

FORMAT

(To be furnished in the Company's official letter pad with full address, contact no., Email)

(TO WHOM IT MAY CONCERN)

This is to certify that Mr/Mrs./Ms..... (Name),
employee of this Organization as (Official Designation)
is hereby authorized to submit tender online, Vide NIT No.....Dated on
behalf of the Organization.

Signature of the competent authority with Seal

.....
(Signature of the Authorized Person)

Signature of Mr/Mrs./Ms.....
.....is hereby attested.

Signature of the competent authority with Seal

ANNEXURE – V

UN-PRICED BOQ

1. Department of Chemistry			
Sl No.	Item	Specification	Compliance (Yes/No)
1.1	Rotary Evaporator with Chiller	<p>For Rotary Evaporator: Rotary Bottle: 1L 24# (standard mouth); 1L 35# (standard mouth); Condenser: Vertical $\phi 85 \times 460$mm, 29# (standard size); Rotary Speed: 0-120 rpm; Vacuum: 0.098 Mpa; Temp. Range: RT~400\square; Stroke Height: 120mm; Rotary Power: 30W; Heating Power: 1.5KW; Shelf Material: Stainless steel; Chamber Material: SS 250 *140mm; Plate size: 280 *330mm; Power Supply: AC220/110V\pm10%, 50/60Hz.</p> <p>For Chiller: Tank Volume: 6L; Tank Material: Stainless Steel; Circulating Pump Flow: 20L/Min; Pump Lift: 4feets; Temp. Control Range: -10 to RT; Circulation Pump Power: 100W; Power Supply: AC220V</p>	
1.2	Digital pH meter	[Systronics Digital pH meter 335]	
1.3	Digital Potentiometer	[Equiptronics Digital potentiometer EQ 602]	
1.4	Digital Conductivity meter	[Systronics Conductivity meter 304]	
1.5	Digital Photoelectric Colorimeter	[Systronics Digital Colorimeter 112]	
1.6	Polarimeter	[Eastern Instruments]	
1.7	Hot air oven	[45 L Stainless Steel Chamber 14 \times 14 \times 14 inch]	
1.8	Magnetic Stirrer with hot plate	[Max heating temp upto 100 $^{\circ}$ C, speed range: 0-2200 rpm, Stirring capacity: 2L]	
1.9	Meltingpoint apparatus	[to determining melting point upto 350 $^{\circ}$ C, 3 capillary tube with one	

		mercury thermometer holding capacity]	
1.10	Digital water bath	[Inner chamber with Lid: Stainless Steel; Outer Chamber: Mild Steel duly powdered coated, Power: 220V/50Hz, Holes Diameter: 75 mm, Number of holes: 8	
1.11	Double Distillation set up	[borosilicate glass tabletop horizontal model, Power: 220V/50Hz, Capacity: 5L]	
1.12	Oil free suction pump	[borosilicate glass filtration flask, capacity one litre vacuum pipe, oil free vacuum pump 15 litre]	
1.13	Ultrasonic Cleaner	[3L with Lid, Inner and outer body made up of stainless steel, Timer setting with LED display, overheat protector, cooling fan, moisture proof, 40khz frequency]	
1.14	Micropipette	(200µl and 1ml) [complete set with calibration certificate]	
1.15	Fume hood	[complete set up; construction material should be made of either stainless steel or plastic]	
2.	Department of English		
Sl No.	Item	Specification	Compliance (Yes/No)
2.1	Hand mike	(Ahuja or Philips Type)	
2.2	Vacuum Cleaner	(Philips Type)	
3.	Department of Physics		
Sl No.	Item	Specification	Compliance (Yes/No)
3.1	To estimate the Wavelength & Velocity of Ultrasonic Waves in a Liquid by Studying the Diffraction through Ultrasonic Grating	[Complete Set]	
3.2	To Study the Polarization of Light for Air-Glass Interface	[Complete Set]	
3.3	To verify Fresnel's formula for reflection of polarized	[Complete Set]	

	light incident on a dielectric interface		
3.4	To estimate the Boltzmann Constant using V-I characteristics of PN Junction Diode	[Complete Set]	
3.5	To determine the Refractive Index of Glass & Liquid by Total Internal Reflection (TIR) using Wollaston's Air - Film	[Complete Set]	
3.6	To analyze Elliptically Polarized Light by Babinet's Compensator	[Complete Set]	
3.7	To measure the Dielectric Constant of Dielectric Materials with Variable Frequency	(SES Make Type) [Complete Set]	
3.8	To study the characteristics of a Ferroelectric Crystal	(SES Make, Model DEC-01 Type) [Complete Set]	
3.9	To determine the Temperature Coefficient of a Semiconductor using NTC Thermistor	(SES Make Type) [Complete Set]	
3.10	To Measure the Susceptibility of Paramagnetic Solution	(Quinck's Tube Method) (SES Make, Model QTX-01 Type) [Complete Set]	
3.11	To Measure the Magnetic Susceptibility of Solids	(SES Make, Model- GMX-01 Type) [Complete Set]	
3.12	Determination of Refractive Index of a Dielectric Film using Surface Plasmon Resonance	(SPR) (SES Make, Model DC-600 Type) [Complete Set]	

4.

Department of Zoology

Sl No.	Item	Specification	Compliance (Yes/No)
4.1	Binocular	(Built-in dioptric correction, Anti-reflective lens coating, High quality finish with a rubber grip coating, Central focus knob, UV protection)	
4.2	pH METER HPG 5-point system with LCD	(Microprocessor based pH meter, 5 point calibration, with large LCD	

		display with manual/auto temperature compensation, Range: pH: 0 to 14.00, mV: 0 to \pm 1999; Accuracy: pH: \pm 0.02, pH \pm 2 Temp. comp.: 0 to 100°C Auto; Power required: 230 V AC \pm 10% 50 Hz)	
4.3	Sonicator Bath	(Inner tank and outer body Stainless steel, Digital display with timers, ceramic heaters with, cooling fan, , Heating temp: 0-80°C, Frequency: 40kHz Capacity: 12 lit)	
4.4	MAGNETIC STIRRER	(Digital display with various size magnets. 2 lt. capacity)	
4.5	Microwave Oven	(Convection type, 28 lit capacity, Samsung type)	
4.6	BALANCE: precision 10 mg to 200mg	(Capacity: 1000gm, Readability: 0.01gm(10mg), Technology: Load Cell, auto external calibration. LCD display, Tare Range: full)	
4.7	BALANCE: precision 0.10 mg to 10mg	(Alternatively Capacity: 220gm, Readability: 0.0001gm (0.1mg), tare range: full, auto calibration during startup, touch screen display)	

Date:

Signature of applicant including title and capacity in which application is made and the name of the Firm with Seal.