



## Khatra Adibasi Mahavidyalaya

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NAAC Accredited B+ (2<sup>nd</sup> Cycle)



Ref. No.: KAM/RUSA/2018-19/P/NIT-01

Date:07/12/2018

### Notice Inviting Tender for Physics Laboratory Equipments under RUSA 2.0 scheme

Tenders in sealed cover are hereby invited by Teacher-in-Charge, KhatraAdibasiMahavidyalaya, from reputed, experienced companies/firms/agencies for supply of Laboratory equipments of Physics Department.

Last date of submission of tenders: 24th Dec 2018, 4pm Tender Open Date: To be announced later in College Website

#### Terms & Conditions

Tenders will be received by hand or by Speed Post/Register Post/Courier Service in sealed cover superscribing "Tender for Physics Laboratory Equipment under RUSA 2.0" and addressed to The Teacher-in-Charge, KhatraAdibasiMahavidyalaya, P.O.+ P.S.-Khatra, Khatra, Bankura, PIN: 722140, W.B. upto 4 pm 24th December 2018. Those who will submit tenders by hand must be received by our college officials.

Tenders received after the aforesaid date and time shall be rejected. The undersigned will not be responsible for any postal delay etc. Bidders or their representative may remain present at the time of the opening of the tenders

### Process to be maintained for submitting Tenders

1. Tenders should be submitted in two cover system containing three parts as detailed below.

PART I: Pre-Qualification bid cum Technical Bid to be kept in the first sealed envelope marked "Pre-Qualification Bid cum Technical Bid".

PART II: Financial Bid to be kept in the 2nd sealed envelope marked "Financial Bid".

PART III: Thereafter the above two sealed envelopes shall be kept in one big cover and sealed marked "Tender for Physics Laboratory Equipment under RUSA 2.0" and send as mentioned address.

Bidders should take care in putting the documents as prescribed. Tenders submitted without following three bid system procedure as mentioned above will be summarily rejected.

#### NOTE:

- A. Pre-Qualification Technical Bid: The "Pre Qualification Technical Bid" shall contain all details regarding the terms offered by the bidder, compliance of terms and conditions, submission of attested Xerox copy of current and valid essential self attested documents as
  - Demand Draft of Rs. 500.00(five hundred only) in favour of Khatra Adibasi Mahavidyalaya" payble at Khatra
  - ii Trade License,
  - iii) PAN/TAN Card.
  - iv) Document mentioning GST registration.
  - v) Income Tax return of last three years
  - vi) P.Tax deposit documents
  - vii) Experience certificates
  - viii) Bank Account details in the name of Agencies/company/firm
- B. Financial Bid: The Pre-Qualification Bid cum Technical Bid will be opened first and the eligible bidders meeting all requirements will be short listed. Financial Bid of only short listed bidders will be opened and the lowest individual item bidder may be selected.

## PLEASE PRINT PAGE NO. 6 to 8 AND RATE THE INDIVIDUAL ITEM (Do not type again the item list)

- C. i. Selection of equipment will be on quality basis considering the rate.
  - College authority reserves complete right to cancel or modify the Tender order partially or completely.
  - Successful bidder must supply the items within one month after issuing purchase order
  - iv. Bidders may quote all items or any number of item in the following prescribed format

Dr. Parthasarothi Hati

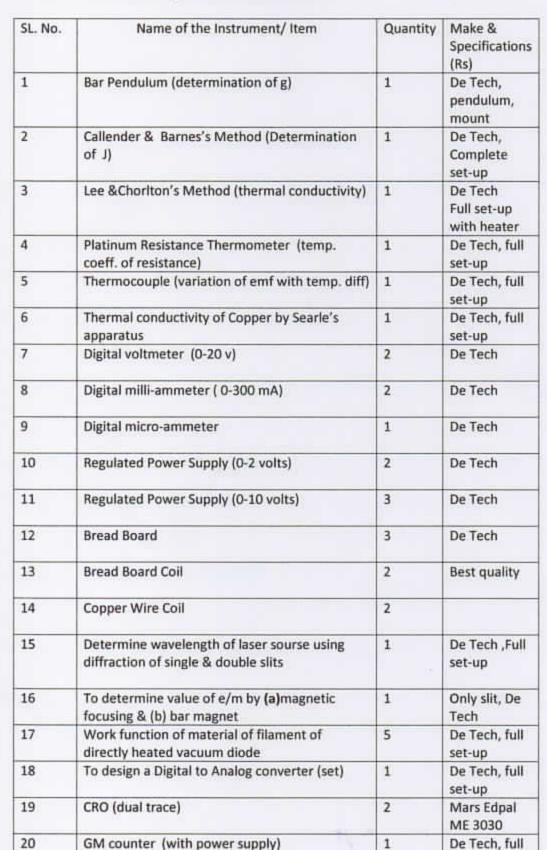
Teacher-in-Charge/ Principal Khatra Adibasi Mahavidyalaya Khatra , Bankura

Teacher-In-Charge Khatra Adibasi Mahawdyalaya Khatra :: Bankura



### Ref. No.: KAM/RUSA/2018-19/P/NIT-01 Date:08/012/2018

### DETAILS OF THE EQUIPMENTS/ITEMS:





set-up

21	Radioactive sources including KSO4, Aluminum, alpha particle source and other common		
	sources in sufficient amount		
	Radiation meter, for studying background	1	De Tech
22	radiation levels		
	To show the tunneling effect in tunnel diodes	1	De Tech, full
23	using I-V characteristics	na-	set-up
	To determine the ionization potential of	1	De Tech, full
24	mercury		set-up
	Measurement of Planck's constant using black-	1	De Tech, full
25	body radiation and photo detector		set-up
	To determine Planck's constant using LEDs of 4	1	De Tech, full
26	different colors		set-up
27	To determine the ionization potential of	1	De Tech, full
	mercury		set-up
28	To draw the BH curve of Fe using Solenoid &	1	De Tech, full
	determine energy loss from Hysteresis		set-up
29	To measure the resistivity of a semiconductor	1	De Tech, full
	(Ge) with temperature by four-probe method		set-up
	and to determine its band gap		
30	Measurement of susceptibility of paramagnetic	1	De Tech, full
	solution (Quinck's Tube Method) (without		set-up
	microscope)		
31	To study the PE Hysteresis loop of a	1	De Tech, full
	Ferroelectric Crystal		set-up
32	To measure the Dielectric Constant of a	1	De Tech, full
	dielectric Material with frequency		set-up
33	To determine the specific rotation of sugar	1	De Tech, full
	solution using Polarimeter(no sodium source)		set-up
34	To analyze elliptically polarized Light by using a	1	De Tech, full
	Babinet's compensator		set-up
35	To verify the law of Malus for plane polarized	1	De Tech, full
	light		set-up
36	To determine the refractive Index of (1) glass	1	De Tech, full
	and (2) a liquid by total internal reflection using	_	set-up
	a Gaussian eyepiece		
37	To verify the Stefan's law of radiation and to	1	De Tech, full
	determine Stefan's constant	-	set-up
38	PANEL BOARD AMPLITUDE MODULATION &	1	De Tech, full
	DEMODULATION		set-up
39	To study FM - Generator and Detector circuit	1	De Tech, full
			set-up
40	To study AM Transmitter and Receiver	1	De Tech, full
			set-up
41	To study FM Transmitter and Receiver	1	De Tech, full
	a sector without the control of the section of the		set-up
42	Measurement of time period, frequency,	1	De Tech, full
	average period using universal counter/		set-up
	frequency counter		000000000000000000000000000000000000000
43	Small resistance (1 Ohm *& 2 Ohm) with four	2 (each)	De Tech
	terminals	122	



44	Small resistance box (0.1-10)ohm	2	De Tech
45	Large resistance box (upto 10 kilo Ohm)	2	De Tech
46	Very Large resistance box (upto 1 MegOhm)	2	De Tech



Dr. ParthasarothiHati

Teacher-in-Charge/ Principal KhatraAdibasiMahavidyalaya

Khatra :: Bankura

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# Ref. No.: KAM/RUSA/2018-19/P/NIT-01 Date:07/012/2018 INDIVIDUAL RATE OF THE ITEMS/EQUIPMENTS

SL. No.	Name of the Instrument/ Item	Quantity	Make & Specifications (Rs)	RATE (Rs.)
1	Bar Pendulum (determination of g)	1	De Tech, pendulum, mount	
2	Callender & Barnes's Method (Determination of J)	1	De Tech, Complete set-up	
3	Lee &Chorlton's Method (thermal conductivity)	1	De Tech Full set-up with heater	
4	Platinum Resistance Thermometer (temp. coeff. of resistance)	1	De Tech, full set-up	
5	Thermocouple (variation of emf with temp. diff)	1	De Tech, full set-up	
6	Thermal conductivity of Copper by Searle's apparatus	1	De Tech, full set-up	
7	Digital voltmeter (0-20 v)	2	De Tech	
8	Digital milli-ammeter ( 0-300 mA)	2	De Tech	
9	Digital micro-ammeter	1	De Tech	
10	Regulated Power Supply (0-2 volts)	2	De Tech	
11	Regulated Power Supply (0-10 volts)	3	De Tech	
12	Bread Board	3	De Tech	
13	Bread Board Coil	2	Best quality	
14	Copper Wire Coil	2		
15	Determine wavelength of laser sourse using diffraction of single & double slits	1	De Tech ,Full set-up	
16	To determine value of e/m by (a)magnetic focusing & (b) bar magnet	1	Only slit, De Tech	
17	Work function of material of filament of directly heated vacuum diode	5	De Tech, full set-up	
18	To design a Digital to Analog converter (set)	1	De Tech, full set-up	
19	CRO (dual trace)	2	Mars Edpal ME 3030	
20	GM counter (with power supply)	1	De Tech, full set-up	

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21	alpha particle source and other common sources in sufficient amount			
22	Radiation meter, for studying background radiation levels	1	De Tech	
23	To show the tunneling effect in tunnel diodes using I-V characteristics	1	De Tech, full set-up	
24	To determine the ionization potential of mercury	1	De Tech, full set-up	
25	Measurement of Planck's constant using black- body radiation and photo detector	1	De Tech, full set-up	
26	To determine Planck's constant using LEDs of 4 different colors	1	De Tech, full set-up	
27	To determine the ionization potential of mercury	1	De Tech, full set-up	
28	To draw the BH curve of Fe using Solenoid & determine energy loss from Hysteresis	1	De Tech, full set-up	
29	To measure the resistivity of a semiconductor (Ge) with temperature by four-probe method and to determine its band gap	1	De Tech, full set-up	
30	Measurement of susceptibility of paramagnetic solution (Quinck's Tube Method) (without microscope)	1	De Tech, full set-up	
31	To study the PE Hysteresis loop of a Ferroelectric Crystal	1	De Tech, full set-up	
32	To measure the Dielectric Constant of a dielectric Material with frequency	1	De Tech, full set-up	
33	To determine the specific rotation of sugar solution using Polarimeter(no sodium source)	1	De Tech, full set-up	
34	To analyze elliptically polarized Light by using a Babinet's compensator	1	De Tech, full set-up	
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36	To determine the refractive Index of (1) glass and (2) a liquid by total internal reflection using a Gaussian eyepiece	1	De Tech, full set-up	
37	To verify the Stefan's law of radiation and to determine Stefan's constant	1	De Tech, full set-up	
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46	Very Large resistance box (upto 1 MegOhm)	2	De Tech	-



### SEAL & FULL SIGNATURE OF THE BIDDER