

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
NAGPUR
DEPARTMENT OF CHEMISTRY
TENDER NOTICE

No. Chem./UGC XII plan/Equip/743

Date:22.03.2013

Sealed Tenders are invited for the purchase of following equipments under UGC XII plan advance grants, Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur-440033 (MS) from manufacturers/dealers/sole authorized distributors/sole agent.

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| 1. Air conditioner | 17. Heating mantles |
| 2. Analytical digital single pan balance | 18. High Vacuum Pump |
| 3. Aqua guard | 19. High volume air sampler |
| 4. Conradson apparatus | 20. Magnetic stirrer with hot plate |
| 5. Digital boiling point apparatus | 21. Magnetic stirrer without hot plate |
| 6. Digital Colorimeter | 22. Microwave oven |
| 7. Digital conductivity meter with cell | 23. Pensky Marten's flash point apparatus |
| 8. Digital flame photometer | 24. Polarimeter |
| 9. Digital nephelometer | 25. Pulse Polarograph |
| 10. Digital pH meter with combined electrode | 26. Redwood viscometer No. 1 |
| 11. Digital potentiometer with electrodes | 27. Redwood viscometer No. 2 |
| 12. Digital TDS meter | 28. Refrigerator |
| 13. Digital turbidity meter with sensor | 29. Rotary vacuum evaporator |
| 14. Digital Visible spectrophotometer | 30. UV cabinet with white light |
| 15. Electric hot air oven | 31. UV-Vis Spectrophotometer with cuvettes |
| 16. Electrically heated rectangular water bath | 32. Verner lab quest |

The details of the tender form can be downloaded from www.nagpuruniversity.org. The tender form containing terms and conditions and complete specifications of the above equipments can be obtained from the office of The Head, Department of Chemistry during office hours.

Schedule of the date is as given below (on working days only):

- a) Sale of blank tender form: 26-03-2013 to 16-04-2013
- b) Submission of tender form: up to 03.30 PM on 16-04-2013
- c) Opening of tender form: Envelope No. 1 on 18-04-2012 (02.00 PM) and envelope No. 2 on 18-04-2013 (4.00 PM) at Department of Chemistry.

Notes:

- i. Blank tender form will be issued after receiving demand draft of any Nationalized/Schedule bank of Rs. 1000/- in favour of The Head, Department of Chemistry, R. T. M. Nagpur University, Nagpur - 440 033,.
- ii. Earnest Money Deposit (EMD) in the form of Demand Draft of any Nationalised/Schedule bank for Rs. 5,000/- (for the items costing above Rs. 1,00,000/-) and Rs. 3,000/- (for the items costing below Rs. 1,00,000/-) drawn in favour of The Head, Department of Chemistry, R. T.

M. Nagpur University, Nagpur-440 033, should be submitted in Envelope No. 1 (Technical Bid).

- iii. The details like, income tax certificate, VAT registration and clearance, authorization from the manufacturers, previous experience, and technical specification should be submitted in Envelope No. 1 (Technical Bid).
- iv. Price bid should be submitted in Envelope No. 2 (Price Bid).
- v. Envelope No. 1 and 2 should be submitted in Envelope No. 3.

The Head, Department of Chemistry, RTM Nagpur University Campus, Nagpur-440033 (MS) India reserves the right to reject any or all of the tenders without assigning any reasons thereof.

Head
Department of Chemistry

Price Rs. 1000/-

Tender Form



**Tender Form for supply of
Equipments/Instruments/Machine/Articles etc.
Under UGC Grant XII Plan
(Vide Letter No. 1419)**

Contact

**Head
Department of Chemistry
Rashtrasant Tukadoji Maharaj Nagpur University
Nagpur-440 033
Ph. No. (0712)2500429**

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR

Department of Chemistry

Details of equipments to be purchased from the UGC Grant XII Plan

Vide letter No. 1419, dated 04-11-2012 of Development Cell

S.No.	Name of instrument.	Specifications
1.	Air conditioner	Split AC with 1.5 Ton and 2 Ton capacity
2.	Analytical digital single pan balance	0.1 mg accuracy with battery back up
3.	Aqua guard	Power supply: 170-260 V AC 1 Ph Running current: 4± 10% Power: 850 ± 10% Tank capacity:120 Lit Water outlet temperature at 35°C inlet: 17 ± 1°C Refrigerant: Freon 22 Total number of Faucets: 3 No of cold water faucet: 2 No. of normal water faucet: 1 Purifier Fault indication: Buzzer Visual controls: LED 10 min UV auto shut off Storage tank material: SS 304 Body material: SS 304 and rest Precoated steel
4.	Conradson apparatus	With Porcelain Crucible, Skidmore Crucible, Monel Cover, Monel Crucible with Cover Monel Hood, with Bridge, Refractory Block, LPG heating
5.	Digital melting/boiling point apparatus	The instruments is microprocessor based. On pressing the button the temp reading gets freezed. Thus User can concentrate freely on the sample under test heating rate as low as 1°C per minute can be achieved. • Heating range 300°C • Accuracy ± 0.1°C • Lens to view the sample slow / fast heating arrangement provided • Magnetic stirrer for uniform heating • Power 230 V 50H 500 VA
6.	Digital Colorimeter	Readout: 2 ½ digit LED display Filters: 8 filters in visible range Detector: Photocell Measurement: T: 0-100% and A: 0-2
7.	Digital conductivity meter (mains cum battery operated)	Readout: 3 ½ digit LED display Range: 01µΩ to 200 mΩ Accuracy: ± 1 unit Power: Mains cum battery operated Conductivity cell: cell with K = 1
8.	Digital Flame photometer	Readout 2 ½ digit LED display (dual channel) Filters Na, K, Ca, Li Stability ± 1 digit Accuracy ± 1 digit Detector Photo Cell Compressor Attached with instrument
9.	Digital nephelometer	0-2000 NTU Digital Readout

10.	Digital pH meter (Mains cum battery operated)	Readout: 3 ½ digit LED display Resolution: pH= 0.01, mV = 1 Accuracy: ± 0.02 pH Power: Mains cum battery operated Electrode: Combine glass electrode with int. reference electrode
11.	Digital potentiometer (Mains cum battery operated)	Readout: 3 ½ digit LED display Resolution: pH= 0.01, mV = 1 Accuracy: 0.001V Power: Mains cum battery operated Electrodes: Platinum electrode and saturated calomel electrode
12.	Digital TDS meter	3½ digit LED display 0.01 PPM to 200 PPT in six ranges 2PPM, 20PPM, 200PPM, 2PPT, 20PPT, 200PPT 1% ± 1 least count 230 V AC ± 10% 50 Hz Cell K = 1 - PVC sleeved and Dust proof cover
13.	Digital turbidity meter with sensor	3½ digit LED display 0.01 PPM to 200 PPT in six ranges 2PPM, 20PPM, 200PPM, 2PPT, 20PPT, 200PPT 1% ± 1 least count 230 V AC ± 10% 50 Hz Stand set, Screwdriver 0.5 PPT Cell K = 1 - PVC sleeved and Dust proof cover
14.	Visible spectrophotometer	Dual beam with auto scanning, microprocessor based, PC compatible with software and connection port for PC Digital readout of %T, O.D. Conc. Digital readout of wave length (350-950 nm) Resolution : 0.1% in %T, 0.001 in O.D. & 1 in 999 for Conc. Spectral bandwidth: 3 nm Wave length resolution : 1 nm Wave length accuracy : ± 1 nm Wave length stability : ± 1 nm Reading stability : ± 1 digit
15.	Electric hot air oven	. Inner size (W x D x H): 355 x 355 x 355 mm, . Capacity: 45 lit., . Stainless steel made inner chamber with air circulating fan, . Thermostatically controlled temperature by hydraulic type capillary thermostat to control temperature from 50oC to 250oC . L-shaped prismatic thermometer is fitted to the unit for reading the chamber temperature
16.	Electrically heated rectangular water bath with 6 holes	Heating coil capacity: 1kW

17.	Heating mantles	<p>Heating mantles with temperature control arrangement by energy regulator single size, these mantles are made to accommodate several sizes of round bottom flasks and to provide uniform heating, bigger size of mantles have two or three circuits so that upper circuits could be switched to when smaller size of flask is being heated or when the liquid level drops. Test mantles provide a maximum surface temperature of 400°C working on 230 Volts AC single phase.</p> <p>R/500/02: Capacity 50 ml, 60 Watts, Circuits 1 R/500/04: Capacity 100 ml, 60 Watts, Circuits 1 R/500/06: Capacity 250 ml, 150 Watts, Circuits 1 R/500/08: Capacity 500 ml, 200 Watts, Circuits 1</p>
18.	High Vacuum Pump	<p>100 % Oil free, diaphragm type vacuum pumps</p> <p>For PDF2-75-CRP: Motor H. P. ¼, Volts/Hertz/Phase 230/50/1, Max. Pre. PSIG 55, Max. Vacuum in Hg = 27, Approximate wt. 12.5 Kg, Dimensions in inch = 12 x 5 x 8</p> <p>For PDF2-25: Motor H. P. 1/16, Volts/Hertz/Phase 230/50/1, Max. Pre. PSIG 35, Max. Vacuum in Hg = 27, Approximate wt. 5.5 Kg, Dimensions in inch = 8 x 4.5 x 6</p>
19.	High volume air sampler	Capable of sampling SPM, RSPM and gaseous pollutants with manifold
20.	Magnetic stirrer with hot plate	1 L capacity with heater and speed control
21.	Magnetic stirrer without hot plate	<p>Capacity: 500 ml with speed control</p> <p>Capacity: 2 lit, 145 x 185 x 135mm, Stirring paddle 9 x 35 mm</p> <p>Capacity: 5 lit, 180 x 195 x 135mm, Stirring paddle 13 x 50 mm</p> <p>Supply: 220-240 Volts 50 Hz Single Phase</p>
22.	Microwave oven	20 lit. Convection with water condenser fitting arrangement
23.	Pensky Marten's flash point apparatus	<p>Electrically heated with solid state regulator</p> <hr/> <p>Accuracy : ± 0.1°C</p>
24.	Polarimeter	<p>Readout: 3½ digit LED display for degrees measurement</p> <p>Detection of angle of rotation: ± 200 (- for levo and + for dextro)</p> <p>Resolution: 0.10</p>
25.	Pulse Polarograph	Microprocessor based pulse polarograph with dotmatrix printer/ X-Y recorder, Windows based Software for DC and pulse mode, Dropping/static mercury electrode system with reference electrode and polarography cell
26.	Redwood viscometer No. 1	Electrically heated with solid state regulator
27.	Redwood viscometer No. 2	Electrically heated with solid state regulator
28.	Refrigerator	Double door (220 lit) frost free, single door (150 lit)

29.	Rotary vacuum evaporator	<p>All controls at the press of a button, four line alpha numeric digital display LCD screen, Simultaneous display on LCD screen of RPM, actual temperature and set temperature</p> <p>Motorised lift arrangement for glass assembly, control upto 200 mm, Lifting up/down indication display on screen.</p> <p>Geared drive unit offers a smooth speed rotation, RPM control from 20 to 200 RPM. On/off indication for geared drive unit displayed on screen.</p> <p>Double walled water bath temperature control from ambient plus 5°C to 99 °C on/off indication for water bath displayed on screen.</p> <p>Vertical glass condenser double coiled with three opening for vacuum and cooling, pear (Kjeldhal) shape evaporating flask capacity 800 ml receiver flask capacity 1 lit. fitted with ball joint, feeding tube and vapour path tube a complete working unit. The same unit can be supplied with round bottom one litre capacity evaporating flask instead of 800 ml pear shape.</p> <p>Accessories: (Please quote separate rates for the accessories mentioned below)</p> <ul style="list-style-type: none"> . Vapour path tube B-24, B-29 . Gasket seal for vapour tube . Feed tube for condenser trap . Receiving flask with S-35 cup (socket) joint capacity 1000 ml . Evaporating flask Kjeldhal cap. 800 ml B-24 . Evaporating flask Kjeldhal cap. 500 ml B-24 . Evaporating flask Kjeldhal cap. 300 ml B-24 . Evaporating flask Kjeldhal cap. 100 ml B-24 . Tension spring to hold condensor . Standard joint plastic clip B-24 <p>Ball joint clip S-35</p>
30.	UV inspection cabinet	<p>To study specimen under UV short (254) & long wave length (365) with white light for day light vision</p> <p>UV filter for protection of eye</p> <p>Works on 230V mains</p> <p>ABS Body, Light Weight</p>
31.	Digital UV-Visible spectrophotometer	<p>Dual beam with auto scanning, microprocessor based, PC compatible with software and connection port for PC</p> <p>Digital readout of %T, O.D. Conc. and wavelength (190-950 nm)</p> <p>Source : Halogen & D₂ lamp Cut off filter IR</p> <p>Resolution : 0.1% in %T, 0.001 in O.D., 1 in 999 for Conc. in PC mode</p> <p>Spectral bandwidth 2 nm Wave length accuracy : ± 1 nm</p> <p>Wave length stability : ± 1 nm Reading stability : ± 2 digit</p> <p>6 point concentration calibration Low volume sample : 1ml.</p> <p>Power: 230V AC, 50Hz, 100VA Sleek, corrosion proof fiber body</p>

32.	Verner lab quest	Built in microphone 320 x 240 colour graphic display, Built in temperature sensor Navigation keys Six sensor ports Stylus Power USB peripherals expansion CO ₂ gas sensor, Dissolve oxygen probe, COD probe/ sensor, turbidity probe/ sensor	LED backlighting Fast sampling rate Collect buttons Computer interface Audio in and out SD/MMC card slot
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GENERAL TERMS AND CONDITIONS

1. The Equipments/Machine/Instrument/Glassware/any articles and their makes and grade asked in the Tender will only be accepted. Dealers are requested not to quote any other makes which has been not asked.
2. Dealers has to supply Equipments/Machine/Instrument/Glassware/any articles as per the Order (makes and grade mentioned). No alternate makes of Instruments are accepted. And if any dealer supply any alternate make of Instruments which has not been ordered these Equipments/Machine/Instrument/Glassware/any articles will be returned to them at their cost.
3. If the Equipments/Machine/Instrument/Glassware/any articles supplied are not found satisfactory, such Instruments will be return to them at their cost.
4. The Order should be complied in totally within fifteen days from date of order or to report how the matter stands.
5. Bills in Triplicate with Pre-stamped receipt/Invoices affixing with Re.1.- revenue stamp should be sent to us within fifteen days.
6. Delivery of Equipments/Machine/Instrument/Glassware/any articles are FOR at The Head, Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur.
7. Please note that our Banker is Bank of India, Rashtrasant Tukadoji Maharaj Nagpur University Extension Counter, University Campus, Nagpur-440 033.
8. Outside dealers are requested to negotiate all documents through the above mentioned Bank if applicable.
9. While submitting your quotation kindly mentioned terms and condition clearly regarding i) VAT Tax ii) Sale Tax iii) Octroi iv) Excise Duty and any other tax applicable.
10. **Octroi and Excise duty certificate will be provided if the Proforma Invoice and consignment are made on the name of Head of the Department of Chemistry Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur. In no case the University will pay the Octroi Tax/Excise Duty.**
11. **The rates mentioned in the quotations should be valid for six months duration.**
12. Blank tender form will be issued after receiving demand draft of any Nationalized/Schedule bank of Rs. 1000/- in favour of The Head, Department of Chemistry, R. T. M. Nagpur University- 440 033, Nagpur.
13. Earnest Money Deposit (EMD) in the form of demand draft of any Nationalised/Schedule bank of Rs. 5,000/- (for the items costing above Rs. 1,00,000/-) and Rs. 3,000/- (for the

items costing below Rs. 1,00,000/-) drawn in favour of The Head, Department of Chemistry, R. T. M. Nagpur University- 440 033, Nagpur should be submitted in Envelope No. 1 (Technical Bid). This money shall be refunded to the unsuccessful dealer/bidder, within 30 days from the date of the opening of the tenders. No interest shall be paid on earnest money deposited. In case of successful dealer the EMD shall be refunded after the official order and successful installation at Department of Chemistry, Nagpur University Campus, Nagpur 440033 (MS) India. Any offer received without the EMD shall stand wholly rejected. Nevertheless, Decision of the Head, Department of Chemistry, Nagpur University, Nagpur. (MS) India, on such matters shall remain final and binding.

14. Tender form will not be accepted without paying tender form fee of Rs. 1000/- downloaded from web site.
15. The supplier shall provide both technical/onsite demonstration /service manual and operation/ installation manual along with the dust cover for the equipment free of cost.
16. The Head, Department of Chemistry, RTM Nagpur University Campus, Nagpur 440033 (MS) India reserves the right to reject lowest of any tender and to increase or decrease the quantity of or split of the items of the tender at any time while finalization of the order.
17. The Head, Department of Chemistry, RTM Nagpur University Campus, Nagpur 440033 (MS) India reserves the right to reject any or all of the tenders without assigning any reasons thereof.
18. In case of any dispute the jurisdiction shall be Nagpur.
19. The tender for equipment/instruments must be sent in sealed envelop with the superscription “tender for instruments/equipment for Department of Chemistry, RTM Nagpur University Campus, Nagpur 440033” and addressed to the Head, Department of Chemistry, RTM Nagpur University Campus, Nagpur 440033 (MS) India.
20. Tenders received late shall not be accepted. All tenders shall be opened in the presence of the bidders or their authenticate representatives in the office of Head, Department of Chemistry; RTM Nagpur University, Nagpur in accordance with the date and time specified in the tender notice.
21. No correspondence queries or reminders or personal visits regarding quotation position or ordering action will be entertained or replied. Orders when finalized will be intimated to the parties concerned only.
22. Outside dealers are requested to quote the mode of dispatch of articles, i.e. by Railway, Post Parcel or Goods Transport or Air Mail.
23. You or your representative may be present at the time of opening the quotations.
24. ***Two bid system (technical and price bid) will be followed. First technical bid will be opened. After the fulfillment of all the necessary documents along with EMD enclosed in technical bid-Part A (i. e. envelope no. 1), then price bid (i. e. envelope no. 2) of the required technical specifications will be only opened. It is, therefore, suggested to submit two independent envelops for technical and financial bids.***
25. *The details like income tax certificate, VAT registration and clearance, authorization from the manufacturers, previous experience, etc. have to be attached with tender.*
26. Kindly mention Sales Tax / Registration number of the firm.
27. Advance payment will not be made.
28. The working hours on Saturday is Morning up to 12.30 PM.
29. Equipments/Machine/Instrument/Glassware/any articles shall be accepted on any working days up to 3-00 P.M..

30. **Sale of blank tender form from 26.03.2013 to 16.04.2013.**
31. **The last date for the submission of the completed tender is 16.04.2013 up to 3.30 PM.**
32. **Technical bid (Envelope 1) will be opened on 18.04.2012 at 2.00 PM. in the office of the Head, Department of Chemistry, RTM Nagpur University Campus. The Price Bid (Envelope No. 2) B will be opened on 18.04.2013 at 04.00 PM.**

Thanking you,

Head
Department of Chemistry
Rashtrasant Tukadoji Maharaj Nagpur University,
Amravati Road, Nagpur 440 033.

निविदाधारकाने द्यावयाचे वचनपत्र

मी ----- घोषित करतो की, राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठाने निविदा प्रपत्रासोबत सादर केलेल्या सर्व अटी व शर्ती मला मान्य आहेत. तदनुषंगाने ठरवून दिलेल्या अनामत / सुरक्षा रकमेचा मा. विभागप्रमुख, रसायनशास्त्र विभाग यांचे नावे बँक ड्राफ्ट (बँकेचे नाव ----- ड्राफ्ट क्रमांक----- रु.-----) तयार करून सादर केला आहे.

ठिकाण: निविदा धारकाची सही -----
पूर्ण नांव -----
दिनांक : संपूर्ण पत्ता-----

दुरध्वनी क्र.-----
सेल टॅक्स क्र.-----

राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ
निविदा अर्ज (तांत्रिक बीड)

प्रति,

मा. विभागप्रमुख
राष्ट्रसंत तुकडोजी महाराज नागपूर विद्यापीठ,
नागपूर.

विषय :- दिनांक रोजी वृत्तपत्रात प्रकाशित झालेल्या निविदेतील तांत्रिक
खरेदी बाबत तांत्रिक बीड (Technical bid) लिफाफा क्र. 01.

संदर्भ :- दिनांकरोजी INDIAN EXPRESS, दै. पूण्यनगरी आणि दै. लोकमत
समाचार या वृत्तपत्रांत प्रकाशित झालेल्या निविदा सूचनेला अनुसरून

महोदय,

मी श्री ----- संदर्भित जाहिरातीच्या अनुषंगाने
तयार केलेला निविदा अर्ज वाचला असून त्यात सादर केलेल्या अटी व शर्तीशी पूर्णपणे सहमत
आहे. करीता आपण निविदेत प्रकाशित झालेल्या Items चा पुरवठा करण्यास तयार
असल्याचे हया निविदेद्वारा लिहून देत आहे.

1. अर्जदाराचे संपूर्ण नांव : -----
2. सार्थाचे नांव व संपूर्ण पत्ता : -----
3. नोंदणी प्रमाणपत्र : जोडले आहे / नाही
4. सेलटॅक्स/क्लिअरन्स प्रमाणपत्र किंवा
विक्रिकर भरण्यापासून सूट मिळाली
असल्यास तसे सक्षम अधिका-याचे प्रमाणपत्र : जोडले आहे / नाही
5. इनकमटॅक्स क्लिअरन्स प्रमाणपत्र (निविदेच्या
अंतिम तारखेपर्यंत ग्राह्य असलेले) : जोडले आहे / नाही
6. विक्री करासंबंधीचा नोंदणी क्रमांक व विक्री
कर भरल्याचे प्रमाणपत्र : जोडले आहे / नाही
7. व्हॅट क्रमांक प्राप्त झाला असल्यास त्याचे
प्रमाणपत्र : जोडले आहे / नाही
8. शासकीय कार्यालय किंवा इतर सार्वजनिक
संस्थांना पुरवठा केल्याबाबत पूर्वानुभव
असल्याची कागदपत्रे. : जोडले आहे / नाही
9. कोणत्याही लेखन सामुग्रीच्या उत्पादक
कंपनीचे प्राधिकृत असल्याबाबतचे कागदपत्रे : जोडले आहे / नाही

10.अर्जा सोबत जोडावयाच्या अनामत रकमेची : जोडले आहे / नाही
माहिती / सूट प्रमाणपत्र

बँकेचे नाव	इशाखा	धनाकर्ष क.	दिनांक	रक्कम

उपरनिर्दिष्ट सादर केलेली माहिती पूर्णपणे सत्य आहे.

सार्थाचे नांव : ----- सेल टॅक्स क. -----

संपूर्ण पत्ता : ----- दुरध्वनी क.-----

ठिकाण : ----- भ्रमन क.-----

दिनांक

सही व शिक्का

करारनामा

विद्यापीठाने ठरवून दिलेल्या अटी व शर्ती/नियमांचे माझ्याकडून उल्लंघन किंवा विद्यापीठाच्या आदेशाप्रमाणे कोणत्याही बाबतीत आवश्यक ती कार्यवाही सात दिवसांच्या आत न केल्यास कायदेशीर कार्यवाही घेण्याचा व करारनामा ताबडतोब रद्द करण्याचा अधिकार विद्यापीठाला राहिल. करारनामा रद्द झाल्यास अनामत / सुरक्षा रकमेवर माझा कोणताही अधिकार राहणार नाही असे शपथेवर लिहून देत आहे.

ठिकाण: करारनामा लिहून देणा-याची सही -----
पूर्ण नांव -----

दिनांक :

साक्षीदार : 1. नांव----- सही -----
2. नांव----- सही -----