

National Research Institute of Ayurvedic Drug Development (NRIADD)
Bharatpur, Bhubaneswar – 751 003.
Under Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH,
Govt. of India, New Delhi

TENDER FOR SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MEDICAL EQUIPMENTS
(Pharmacy, Chemistry, Pharmacognosy, Radiology Section)

NRIADD, Bhubaneswar invites sealed Tender bids from eligible bidders, in single stage two bid system, for supply, installation, Testing & Commissioning and handing over of various Medical Equipment.

The bidding document along with the details of equipments may be obtained from NRIADD, Bhubaneswar Office from 19/03/2015 to 02/05/2015 (10.00AM to 03:00PM) on any working day on payment of tender fee of Rs.1500/- by cash/DD in favour of NRIADD, Bhubaneswar, payable at Bhubaneswar on the submission of a written request to the Director (Institute). Website (www.ccras.nic.in) downloaded application should be accompanied with the required amount of Rs.1500/- in the shape of cash/DD.

The last date for submission of bids is 02/05/2015 upto 03:00 PM.


SAD

Director (Institute)

Tender for
Supply & Installation of
Pharmacy, Chemistry, Pharmacognosy and Radiology Items

**For National Research Institute of Ayurvedic Drug Development,
Bharatpur, Bhubaneswar- 751 003**

TENDER NO. : 01/2015, DATED : 19/03/2015

File No.	:	7-17/2013-14/NRIADD/BBSR/Store/Upgradation
Issue date	:	From 19/03/2015 to 02/05/2015
Last Date of Submission	:	02/05/2015 upto 15:00 hrs.
Tender opening date(Technical Bid)	:	05/05/2015 at 3:30 PM
Cost of Tender Document	:	Rs.1500/- (Non-Refundable) by the way of cash/ Demand Draft in favour of "National Research Institute of Ayurvedic Drug Development, Payable at Bhubaneswar.
Earnest money Deposit	:	3% of approximate cost of tender
Period of validity of approved rates	:	6 months from the date of accepting the tenders or till the supply is completed.
Place of opening of bids	:	Conference Hall, National Research Institute of Ayurvedic Drug Development, Bharatput, Bhubaneswar.



**National Research Institute of Ayurvedic Drug Development (NRIADD)
Bharatpur, Bhubaneswar- 751 003.
Under CCRAS, Ministry of AYUSH, Govt. of India, New Delhi**

NOTICE INVITING TENDERS

National Research Institute of Ayurvedic Drug Development, Bharatpur, Bhubaneswar a constituent unit of CCRAS, under Ministry of AYUSH, Govt. of India invites sealed tender bids from eligible bidders, in single stage two bid system, for supply, installation, Testing & Commissioning and handing over of various Medical Equipment at National Research Institute of Ayurvedic Drug Development, Bharatpur, Bhubaneswar.

Detailed Description and Term & Conditions of Tender Document may be seen and downloaded from CCRAS website www.ccras.nic.in or may be obtained directly from the Cashier , NRIADD, Bharatpur, Bhubaneswar on any working day from 19/03/2015 to 02/05/2015 from 10:00 Hrs to 15:00 Hrs on Payment of Tender Document Cost of Rs.1500/- (Non Refundable) in the form of cash or DD, drawn from any Nationalized Bank in favour of NRIADD, Payable at Bhubaneswar on the submission of written request to the Director (Institute), NRIADD, Bharatpur, Bhubaneswar. Application downloaded from the website should be accompanied by the required amount of fee / DD of Rs.1500/-. (Last date of submission of tenders is 02/05/2015 (up to 15:00 Hrs) in the Tender Box kept in the Administrative Section of the Institute).

The schedule of sale of Bidding Documents, date of submission and opening of bids has been given in the bidding document.

This tender document has schedules and appendices as follows

- | | | |
|-----------------|---|--|
| Annexure – I | : | List of equipments with approximate cost of EMD |
| Annexure – II | : | Information to Bidders |
| Annexure – III | : | Terms & Conditions |
| Annexure – IV | : | Technical Bid |
| Annexure – V | : | Price Bid |
| Annexure – VI | : | Technical Specification of equipments |
| Annexure – VII | : | System configuration Accessories, spares, consumables ,Environmental Factors and Standars /safety. |
| Annexure – VIII | : | Warranty/Service & Documentation |
| Annexure – IX | : | Details of Bidder |
| Annexure – X | : | Financial Bid Format |
| Annexure – XI | : | Bidder Form |
| Annexure – XII | : | Check List |

Director (Institute)

Annexure – I

LIST OF EQUIPMENTS WITH ESTIMATED COST OF EMD

Sl.No.	Instrument Name	EMD in Rs.
01.	Vati/Pills Making Machine	3,000=00
02.	Tray Dryer (24 Trays)	12,000=00
03.	Disintegrator	1,500=00
04.	Tablet Compression Machine (4-8 Punch)	3,000=00
05.	Granulating Machine	1,200=00
06.	End runner	2,400=00
07.	Capsule filing machine	150=00
08.	Pulverizer	3,000=00
09.	Single Pan Balance	4,020=00
10.	Water Bath (6 Holes) (Digital)	750=00
11.	Heating Mantle (100,250,500,1,2,5, 5Lit.)	1,050=00
12.	Hot Plate	600=00
13.	Polarimeter (Digital)	10,500=00
14.	Abbe Refractometer (Digital)	10,500=00
15.	Digital pH meter	900=00
16.	Tablet Disintegration Apparatus (Digital)	900=00
17.	Tablet Friability Apparatus	1500=00
18.	Tablet Hardness Tester (Monseto Type)	300=00
19.	Analytical Balance (upto 0.0001-220g)	4500=00
20.	Clavenger Apparatus (Glass)	150=00
21.	Soxhlet Extractor (100,250,500,1000ml)	1050=00
22.	Distillation Assembly	150=00
23.	Hot Air Oven (Digital)	2100=00
24.	Muffle Furnance (Digital)	1500=00
25.	Dissecting Microscope	150=00
26.	Binocular Microscope	750=00
27.	Camera Lucida	75=00
28.	Incubator	750=00
29.	Sledge/Rotary Microtome	1500=00
30.	Hot Plate	48=00
31.	TLC applicator (Automated)	21000=00
32.	HPTLC Reprstar with software	1,05,000=00
33.	Digital X-Ray	30,000=00

Annexure : II

NATIONAL RESEARCH INSTITUTE OF AYURVEIDIC DRUG DEVELOPMENT,
BHARATPUR, BHUBANESWAR- 751 003
E-mail : nriadd.bhubaneswar@gmail.com

National Research Institute of Ayurvedic Drug Development, Bhubaneswar, Odisha is an autonomous organization under Central Council for Research in Ayurvedic Sciences, Ministry of AYUSH, Govt. of India, invites sealed tenders in two-bid system for supply and installation of the following items at the Institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

Sl.No.	Item Description	Quantity
01.	PHARMACY INSTRUMENTS	As specified
02.	CHEMISTRY INSTRUMENTS	As specified
03.	PHARMAOGNOSY INSTRUMENTS	As specified
04.	RADIOLOGY INSTRUMENTS	As specified

(Refer Details as per Annexure-‘VI’)

Quotation should be sealed and super scribed with tender number and address to :

“Director (Institute)

National Research Institute of Ayurvedic Drug Development,
Bharatpur, Near Kalinga Studio, Bhubaneswar-751 003”.

The sealed quotations should reach the Institute, latest by 02/05/2015 by 15:00hrs and the technical bid will be opened on 05/05/2015 at 3:30PM in the Administrative Office, NRIADD, Bhubaneswar of the Institute in the presence of the bidder(s) or their authorized representative(s), who will be present at the scheduled date and time. The list of technically qualified bidders with the date of opening of financial bid shall be hoisted in Speed Post.



Terms & Conditions :

1. Earnest Money Deposit : The bidder shall be required to submit the Earnest Money Deposit(EMD) for an amount of 3% of total amount by way of demand drafts only and Rs.500=00 as tender fees drawn in favour of the "NRIADD, Bhubaneswar" (TENDERS NOT ACCOMPANIES WITH EMD/BID SECURITY AND TENDER FEES ALONGWITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED). In case a firm quotes more than one items, they may do so in separately or at least furnish a separate EMD for each item. In case of more than one items quoted with a single EMD, the first item only will be considered for comparison.

The EMD of the successful bidder shall be returned after the successful complete of contract/order and for unsuccessful bidder(s) it would be returned after award of the contract. Bid(s) received without demand draft of EMD shall be liable for rejection.

The firm who are registered with National Small Industries Corporation (NSIC)/ OR Small Scale Industries (SSI) are exempted to submit the EMD (Copy of registration must be provided along with).

2. Rate : Rates should be quoted in Indian Rupees (INR) or FOR Basis at NRIADD, Bhubaneswar, Odisha, Inclusive of all the Charges, with break-ups as :

- Basic Cost.
- VAT/CST as applicable.
- Insurance charges if any.
- Total Cost (F.O.R at NRIADD, Bhubaneswar).

3. Validity : The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing terms, conditions etc. of their original tender.



4. Warranty/Guarantee : Bid must be quoted with five (05) year comprehensive on-site warranty/guarantee and it will be started from the date of the satisfactory installation/commissioning of goods, against the defect of any manufacturing, workmanship and poor quality of the components. Warranty would be followed by 5 year CMC (Comprehensive maintenance contract with spares) @3% of the cost of the Machine with 5% increment every year. Vendor would submit list of consumables required for running the machine along with its cost. During the warranty and CMC period the supplier/company should provide a minimum of 04(four) preventive maintenance as routine services. After sales services must be provided in the city of installation. In situations requiring service or repair of the unit outside the city of installation, the expenditure on the account of this will have to be borne by the supplier.
5. Uptime guarantee : the firm should provide uptime guarantee of 95% during warranty and CMC period, with acceptance of the penalty clause in case of failure to do so.
6. Downtime penalty Clause : During the comprehensive warranty period, the guarantee uptime of 95% of 365 days will be ensured. In case the down time exceeds the 5% limit penalty of extension of guaranty period by two days for each additional day of down time will be enforced. The vendor must undertake to supply all spares for optimal upkeep of the equipment for at least FIVE YEARS after handing over the unit to the Institute.

If accessories /other attachment of the system are procured from the third party, then the vendor must produce cost of accessory/other attachment and the CMC from the third party separately along with the main offer and the third party will have to sign the CMC with the Institute if required.

The principal supplier or their service partners are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

7. FALL CLAUSE

If, at any time, during the said period, the supplier reduce the said prices of such Stores/Equipment or sales such stores to any other person/organization/Institution at a price lower than the chargeable, he shall forthwith notify such reduction or sale to the Director (Institute), National Research Institute of Ayurvedic Drug Development, Bharatpur, Bhubaneswar and the price payable for the stores supplied after the date of coming into force of such reduction or sale shall stand correspondingly reduced.

The supplier shall furnish the following certificate to the Accounts Section along with each bill for payment for supplies made against in Rate Contract Tender.

"I/We certify that the Stores of description identical to the Stores supplied to the government under the contract against Tender herein have not been offered/sold by me/us to any other person/organization/Institution up to date of bill/ the date of completion of supplies against all supply orders placed during the currency of the tender/rate contract at the price lower than the Institute under contract/against tender".

8. Delivery & Installation : All the goods ordered shall be delivered & installed within 4 weeks from the date of issuing purchase order. All the aspects of safe delivery, installation and commissioning shall be exclusive responsibility of the supplier.

If the supplier fails to delivered, installation and commissioning of the goods on or before the stipulated date, then a penalty at the rate of 2% per week of the total order value shall be levied subject to maximum of 10% of the total order value.

9. Performance Security : The supplier shall require to submit the performance security in the form of irrevocable Bank guarantee (BG)/or Fixed Deposit Receipt (FDR) issued by any Nationalised Bank for an amount of which is equal to the 10% of the order value and should be kept valid for a period of 30 day beyond completion of all the contractual obligation including CMC period.

10. Payment Term :

- 70% payment of the total order value shall be released after the successful installation/commissioning of the ordered goods against the submission of the test report.
- Balance 30% of the order value shall be released within one month after successful installation, commissioning and functioning of the equipment and the submission of the performance security.

11. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms and conditions as mentioned in the tender enquiry document.

12. Signed and stamped compliance sheet of the technical specification of the goods with technical printed literature must be enclosed with the bid. The compliance sheet should specifically mention the page and the place where the proof of the compliance is mentioned for each item.

13. After due evaluation of the bid (s) institute will award the contract to the lowest evaluated responsive tenderer.
14. Conditional bid will be treated as unresponsive and it may be rejected.
15. The Institute reserves the right to accept in part or in full or reject any or more quotations(s) without assigning any reasons or cancel the tendering process and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
16. **TENDER EVALUATION**
Tenders evaluation will be done in two stages :
 - a. Technical bid and
 - b. Price bid.

Each bid to be submitted in separate sealed envelopes super-scribed as "Technical Bid" and "Price Bid" respectively. All these 2 envelopes should be put in another envelope marked as "Tender for Pharmacy/Chemistry/Pharmacognosy/Radiology Instruments for NRIADD, Bhubaneswar" sealed with sealing wax.



TECHNICAL BID :

The firm should submit the technical bid in a sealed cover separately super-scribing "Technical Bid for Pharmacy/Chemistry/Pharmacognosy/Radiology Sectors" along with Name and address of the Bidder. Technical bid should contain:

- a. The name of items with specification and makes/brands of the items, indigenous or imported with name of manufacturer and address must be enclosed.
- b. Literature and catalogues in support of items quoted must be enclosed in original.
- c. Whether the items quoted is as per specification, if not the statement of deviation (Parameter wise) from the tender technical specification must be enclosed.
- d. Details about the
 - i. Past experience (in years).
 - ii. Spares & services after the sale of the equipment.
- e. Undertaking for providing CMC for 5 years after 5 years Warranty.
- f. Undertaking by manufacturer of equipment for servicing the equipment & supply of spare parts whenever required at least for 5 years after completion of warranty/Guaranty.
- g. Name, Address, Phone & Fax No. of Service Centre at Bhubaneswar or nearby.

The Committee constituted by the Director (Institute) will technically evaluate the items on the basis of specification as per Annexure -I, make/brand quoted; literature enclosed, sample submitted wherever asked, the authority from manufacturer for the item etc. the items accepted technically will only be considered for price evaluation (price bid). Price should not be quoted with technical bid, otherwise the tender will be rejected without any correspondence.

PRICE BID :

Should be submitted in a separate sealed envelope super-scribing the word "Price Bid for Pharmacy/Chemistry/Pharmacognosy/Radiology Sectors" along with name and address of the Bidder. The price should indicate all inclusive lump sum price including cost of the item, freight, insurance, transit insurance, packing, forwarding, sales tax, excise duty, VAT, Octroi etc. and charges for installation and commissioning. No other charges in addition will be payable on any account over and above the lump sum price quoted. Offers with price variation clause will not be accepted. The rates quoted in ambiguous terms such as "Freight on actual basis" or "Taxes as applicable extra" or "Packing forwarding extra" will render the bid liable for rejection irrespective of its gradation in respect of lump sum prices quoted.

Bidders shall indicate the actual rate of octroi, excise duty, sales tax, VAT, etc. which will be payable.

Price quoted should be in Indian currency (INR).

17. Applicable Law :

- * The contract shall be governed by the laws and procedures established by Govt. of India, within the frame work of applicable legislation and enactment made from time to time concerning such Commercial dealings/processing.
- * Any disputes are subject to exclusive jurisdiction of Competent Court .
- * The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Bhubaneswar. The decision of the Arbitrator shall be final and binding on both the parties.
- * Force Majeure : Any delay due to Force Majeure will not be attributable to the supplier.

01. **Vati/Pills making machine :**
(Motorized Pills Making Machine (semi Automatic) GMP Model : Having unique design performing direct stick making and Pills forming. Consist of 4 S.S. rollers. Two rollers press and cut the sticks which come out of the machine. These sticks are fed again in Pill Making rolls and instantly you get round pills. Machine is powdered by fractional HP 1 phase Electric Motor duly wired. Whole body of the machine is covered by Stainless Steel and supplied with collecting trays. Machine can be supplied for any size from 4mm. Production Capacity is 2 Kgs. And above per hour. (Machine makes one size of Pills only)

02. **Tray Dryer (24 Trays) :**
(Drying oven 24 Trays) – 24 stainless steel 304 trays. Tray size 838x405x32mm, Air Circulating Fans, Digital Temperature indicator & Controller, Digital timer for Auto Stop, Electric Heater and Controllers, Panel Board with Standard Electrical.

03. **Disintegrator :**
The whole body of the machine made from heavy-duty mild steel. It is high powdered machine for grinding/cutting hard materials into smaller fragments/pcs. Complete made from Mild Steel. Provided with 3-phase motor. Body size 12" dia, Approx. Output Capacity – 50-60 Kg/hr, 5HP/3 Phase.

04. **Tablet Compression Machine (4-8 Punch) :**
Extra Heavy Duty Tablet Compressing Machine (without Die), No.8, Max. Tablet Dia : 56mm, Max. Filling Depth: 20m, Single Stroke Multi Punch, SS Contact Parts (without Die), Single Stroke Multi Punch, 3HP AC Motor & Starter.

05. **Granulating Machine :**
Granulator (Multi Mill), Oscillating type, SS Contract Parts, Cap. 100 Kgs./hr, with motor and starter.

06. **End Runner :**
Granite end runner 10" to 12" Size, having mortar and pastle of granite crafted out from the solid grey granite stone running of bearings driven through oil filled worm gear box and powdered by ½ HP Single Phase / 3 phase electric motor. The machine is designed in such a way that the pastle can be taken out from the pot for total cleaning. Complete with two S.S. Scrappers. STD model.

07. **Capsule Filling Machine :**

A versatile lever operated semi automatic machine for various operations with lever order of : plates for putting of capsules by hand, removal of capsules, filling of powder by dispensing of brush pressing, fixing of caps and selling, injection of capsules contract parts of stainless for 100 capsules of size 0., Capacity of 200 capsules on order.

08. **Pulverizer :**

For powdering crude drugs and herbs, species and chemicals having 10" grinding chamber. The rotor is fitted with army of beaters and is directly mounted on 2HP 2800 RPM or higher RPM motor. The material is fed directly through a hopper. The sieves are interchangeable. The Product is collected in a bag. The machine is fitted on a stand complete with three sieves. The capacity of the machine is 10 to 25 Kgs. Per hour depending on the product. The machine supplied with 3 SS perforated sieves complete with starter.

09. **Single Pan Balance :**

Scales for Special Application : Motorized internal calibration (Optional), ISO GLP compliance (Optional)

Balance Accessories : Real Time Clock (RTC) Optional,

Digital Force Measuring Gu. : Multiple weighing units, standard bi-directional RS-232 interface.

Dynamic Check Weighing S. : Polyfunction % weighing, counting, fill mode, GSM, back light LCD display.

Electro Chemical Instruments : Density determination Kit (Optional), Weigh below hook for density determination (Optional).

Optical Instruments : Anti theft locking device (Optional) Gold Purity Checking Instrument: GSM (grams per sq mtr) measurement for paper & cloth quality checking.

Cotton Count (New English count) measurement for cotton yam with temperature compensation (Optional).

Denier measurement for silk and synthetic yam (Optional).

Cocoon assessment with statistical analysis for cocoons (Optional).

Software for SQC (Statistical Quality Control) for Pharmaceutical Industries (Optional).

10. **Water Bath :**

The water bath should be made up of double walled with inner chamber made up of SS 304 quality and Outside mild steel sheet painted with epoxy powder coating. The gap between outer and inner wall should be filled with special grade insulation with the mineral wool. The concentric rings should be of variable sizes to accommodate containers of various sizes. Temperature from ambient to 100°C +/- 0.5°C controlled by thermostat. It should have size 300x250x100 mm (6 holes of 75mm).

11. **Heating Mantle** :
It should have temperature range from 40 to 350°C +/- 1°C controlled by thermostat. Body should be made up of mild steel sheet painted with powder coating. Capacity : 100, 250, 500 ml, 1, 2.5, 5 lit. Separate rates should be quoted for each capacity.
12. **Hot Plate** :
Rugged steel construction with round pan made up of cast iron plate on top. Pan size 12 inches. Heaters should be distributed uniformly for uniform heating. Sunvic energy regulator for accurate temperature control. Rating 1.0-1.5kV. Operation on 220V/50Hz single phase.
13. **Polarimeter (Digital)** :
Measuring Mode : Optical Rotation, Specific Rotation, Specific Rotation Plus, Concentration, User Defined Scale
Measuring Scale : Degrees Arc Optical Rotation
Resolution : 0.001^o Arc Optical Rotation 0.001% Concentration 0.001 Specific Rotation
Accuracy : 0.002^o up to 1^o, 0.2% up to 5^o, 0.01^o above 5^o
Accuracy Option : single +/- 0.002^o Arc Optical Rotation
Dual +/- 0.002^o Arc Optical Rotation
Wavelength Accuracy (546 nm and 589 nm): +/- 0.002^o Arc Optical Rotation
Resolution Option Selectable Resolution : 0.01, 0.001, 0.0001^o Arc
Reproducibility 0.002^o Arc Optical Rotation
Measuring Range +/- 89^o Arc Optical Rotation, +/-999.99 Specific Rotation, 0-99.9% Concentration.
Prism- Glan Thompson Calcite
Optical Wavelengths- 365nm, 405nm, 436nm, 546nm, 589nm, 633nm (other wavelengths available : 325nm) or more wavelengths
Wavelength Selection : Selectable/1,2 and 6
21 CFR Part 11 Compliant Software – desired
Temperature Control Automatic Electronic Heating & Cooling 15^o-35^o C (Optional)
Accuracy +/- 0.2^oC (optional)
Temp. Probe Range : 10^o-40^o C
Temp. Probel Accuracy : +/- 0.1^oC
Measurement Time : 4^o/sec slewing rate & 5 sec nominal settling time.
Light Source : Tungsten-Halogen 6V,20W, Avg. 2,000hr. life

Sample Chamber : to accept sample tubes up to 200mm

Date Storage : Internal/external memory 2 GB or more

Communication Interface: USB Ports, RS232 Ports, Ethernet Port for Network Connection

Analog Output : 0.1% resolution 0-10 volt full range or 4-20mA full scale (optional)

Calibration : Automatic calibration via touchscreen

Display (Appx.) : 16cm x 12cm color TFT Graphics LCD with LED backlight providing 800 x 600 resolution with 600 nits of luminance

User Interface : Touchscreen

Automatic Sensitivity Control : Measures samples with transmittance as low as 0.01% (up to O.D. 4.0)

Input Powder : 100-240V, 50/60Hz

Temperature Compensation : Temperature of the sample can be corrected to a reference temperature.

Calendar/Clock : Battery – backed clock. Time and date sent to computer and printer

14. **Abbe's Refractometer (Digital)** :

It should have measuring range of nD 1.3000 to 1.7000, brix 0.0 to 95.0% (Automatic Temperature compensation ins executed from 5 to 50⁰C for Brix only; Minimum indication : refractive index (nD) 0.0001, brix 0.1%; Measurement accuracy : Refractive index (nD) +/- 0.0002, Brix +/- 0.1% Temp. range : 5 to 50⁰C (at unit of 0.1⁰C).

15. **Digital pH meter** :

The pH meter should be Microprocessor based. pH Range: 0 to 14pH, mV range: 0 to 1999.9 mV, Temp range : 0 to 100⁰C, Resolution : 0.001pH, 0.1 mV and 0.1⁰C, Accuracy : 0.01pH+-1 digit, 0.1mV, and 0.1⁰C, Calibration mode : Auto/manual, Temperature compensation Auto/Manual from 0 to 100⁰C, Auto Buffer Recognition for 4.00, 7.00 and 9.2 pH, Read out: 16x2 line LCD display, Storage: Up to 90 samples, Keyboard : Soft touch membrane type Keys, Printer ports : for Attachment of dot matrix or suitable printer.

16. **Tablet Disintegration Apparatus (Digital) :**

Microprocessor based Tablet Disintegration Machine for testing the disintegration time for tablets, capsules, and other solid dosage forms. Should comprise of acrylic tank with immersion heater and two 1000 cc capacity beakers. Built-in RTD sensor to maintain the bath temperature. Digital display of Temperature and time indicators should have combined in one display unit thereby providing accurate digital indication of both parameters. The equipment should be able to carry out two disintegration test of tablets simultaneously. Should work on 230 volts single phase A.C. 50 Hz.

Features :

Digital Temperature and Timer
Splash proof panel with LCD display
Smooth up and down movement
Water bath for uniform temperature
Fluorescent tube light for better viewing of tablet disintegration
With water circulation System (Optional)

Technical Specification:

Temperature : 25.0⁰C to 40.0⁰C
Accuracy : +- 0.3⁰C
Powder : 230V 50 Hz.
Heating System 300 Watt 230V, Accuracy +-0.5⁰C
Timer : 1 min to 99hrs 59mins 59 secs
Strokes : 30 strokes / min
Waterbath : 8 ltrs.

17. **Tablet Friability Apparatus :**


Should be fitted with an acrylic drum of 30cm diameter with curved blade. Equipped with geared motor to give 25rpm. Digital display for speed in rpm and time in minutes. Operation 220V/50Hz.

18. **Tablet Hardness Tester (Monsanto Type) :**

Should be made up to brass parts, Chromium plated. Scale length 66mm; readability : 0-20 Kg per sq. cm: Scale adjustable to zero setting as per size of the tablet. Appropriate carry case.

19. **Analytical Balance (upto 0.0001-220g)**

Weighing capacity -220g, Readability-0.0001g, Linearity +/- .002g and Draft shield should be included.

20. **Clavenger Apparatus :**
Clavenger Apparatus (Essential oil determination apparatus) for determination of volatile oil lighter than water made up of Borosil glass, with 1000ml. flask, Vertical tube combined with condenser and measuring tube with stopcock. A return tube for the aqueous part of distillate connecting the bottom of the measuring tube and the vertical tube.
21. **Soxhlet Extractor (100, 250, 500,1000ml) :**
Soxhlet Extractor of 100, 250, 500 and 1000ml capacity, made up of Borosil glass, with condenser and receiving flask of appropriate capacity.
22. **Distillation Assembly :**
Plain Still Head with B24, B24 and B14 cone size, with Condenser Coil (Graham) coiled distillate type, socket size B24 and B24, length 400mm. Receiver adapter with socket size B24 and Round Bottom of Borosil glass of capacity 1.0 lit.
23. **Hot Air Oven :**
Oven should be of Memmert type with appx. Dimensions 455mmx455mmx475mm (95 ltrs.), Digital Model. It should have sturdy double walled unit with outer chamber made up of MS sheet pre treated with primers for rust proofing painted with attractive stove enamel or epoxy powder coated with inner chamber made up of aluminum/SS (304 Grade) sheet. The gap between inner and outer chamber should be fitted with high grade glass wood to avoid thermal losses. Beaded heating elements made up of Kanthal A1 wire must be placed in ribs, at bottom and sides, inner chamber should be provided with ribs for adjusting perforated shelves to convenient heights. Temperature should be controlled through a microprocessor based PID Digital Temperature indicator cum controller from ambient to 250⁰C with an accuracy of +/- 1⁰C . Oven should be fitted with air circulation fan. Air ventilators should be also provided on the sides of the unit.
24. **Muffle Furnance (Digital) :**
Specifications desired : The furnance should have outer casing made up of mild steel sheet or PCRC sheet painted in epoxy powder coating. It should have ceramic fiber wool insulation. Heating elements should be made of KANTHAL "A-1" wire and packed by high temperature ceramic wood insulation, which avoids loss of energy. Temperature should be controlled through a microprocessor based PID Digital Temperature indicator cum controller. It should work on 220/230 volts AC. The working temp should be up to 900⁰C with maximum temp of 1000⁰C. It should have size of 175x175x475 mm (WxHxD).
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25. **Disecting Microscope :**
 Separate coarse & fine adjustment, square stage with mechanical stage, Movable condenser, microscope is inclined up to 90 degree with mechanical tube length 160mm, Objectives "self" para-focal achromatic objectives 10x45x/45x (S.L.) and 100x (oil immersion), eye-pieces : huygenian 10x & 5x or 10x.
26. **Binocular Microscope :**
 Binocular observation head model, inclination 45 degree, interpupillary distance adjustment range. 53-75mm, diopter adjustment on the left. Achromatic objectives : 4x, 10x,40x (spring), 100x (spring, oil). All antifungal coated. Eyepiece : 10x LB wide field, antifungal coated. Focusing by coaxial coarse and fine roller guide (rack and pinion type). Coarse movement stroke 20mm. Tension adjustment on right. Quadruple revolving nosepiece (fixed). Plane stage 120x132mm. With mechanical stage right hand coaxial drive. Abe condenser 1.25(oil immersion), vertical adjustment range 10mm, with aperture iris diaphragm. Blue filter.
27. **Camera Lucida** : (Prism Type)
 Camera Lucida (Prism) type for making line drawings of the powder drugs.
28. Incubator : Bacteriological (M.Type), Digital Bearing ISI Mark, Inner Chamber made of Stainless Steel. Size of Inner Chamber : 455 x 605x455mm 125ltrs, 3 Shelves, 1.0KW, 220V Single Phase, 50Hz, AC supply. Digital Control Knob.
29. **Sledge Microtome** :
 Construction : Cast Mechanite, machined, precision ground and finished with durable solvent and detergent proof coating.
 Specimen Advance : - 0-40 micron in 1 micron increments, retraction operates on return stroke.
 Manual gross advance/rewind Facility.
 Knife Holders : Support arms reversible with slew facility. Angle tilt with indicator scale and full width knife guards. Single side double clamp facility available as option.
 Object Holder : Vice clamp fitted as standard but quick release cassette clamp available as an option if required.
 Maximum Block Size : 170x250mm
 Accessories : Tool Kit; Oil; Operating Manual Dimension : Length 61cm; height 32.5cms; Width 26cms; Weight 25kgs.
- OR **Rotary Microtome** :
 Section thickness:
 Section thickness setting range : 0,5-100um
 Setting values : from 0,5um-5um in 0,5 um-increments
 From 5-20um in 1um-increments
 From 20-60um in 5um – increments

From 60-100 um in 10um-increments

Trimming section

Thickness setting range : 1-600um

Setting values :

from 1-10um in 1um-increments

From 10-20um in 2um –increments

From 20-50um in 5um-increments

From 50-100um in 10um-increments

From 100-600um in 50um – increments

Object feed : 28mm +-1mm, feed motion via step motor

Vertical specimen stroke : 70mm

Sectioning modes : 4

Specimen retraction :

In manual operation : 5-100um in 5um-increments, can be turned off

In motorized operation : varying with the sectioning speed, can be turned off

Electric coarse feed : 300um/s und 900 um/s

Sectioning speed : 0,5-420mm/s +- 10%

30. Hot Plate: Rugged steel construction with round pan made up of cast iron plate on top. Pan size 12 inches. Heaters should be distributed uniformly for uniform heating. Sunvic energy regulator for accurate temperature control. Rating 1.0-1.5kV. Operation on 220V/50Hz single phase.
31. TLC Applicator (Automated) -
Stand-alone or PC control automated Thin Layer Chromatography (TLC) plate applicator. 2-10ul syringe, contact & spray on applicator. For spot/line application, spray on technique 10-method storage. For analytical work (0-10 mm band/0.1 to 20uL vol.) and preparative work (190 mm band, 500 uL vol.). Sample positioning on X & Y axis freely selectable, variable rate of delivery, easy to clean sample syringe, accepting 100 & 500 ul syringe, self diagnostic and validation built in.
32. HPTLC Reprostar with software (Photo Documentation Unit) -
Stand-alone or PC control automated. UV Cabinet Dual wavelength with 254 & 366 nm and white light, illumination computer aided design. Removable lamps, 25KHz flicker free illumination. 12 bit camera Auto shut off of UV lamps. Should be completely safe to viewer. UV absorbing viewing window. Rolling shutter door with facility to mount digital camera. Control from computer with appropriate software. Software must be able to high data capture and automated noise reduction. GMP/GLP compliant.
33. Digital 100MA X-ray machine with digital system with printing

System Configuration Accessories, spares and consumables

- A. System as specified. But all the items should be of the same manufacturer of International repute only.
- B. ACCESSORIES : - All possible accessories of the equipment should be quoted. The specific accessory and its quantity will be decided on the basis of actual requirement.
- C. The system should be capable of accepting standard accessories of major international brands, which should be specified and for which suitable adaptor, if required, is to be provided.
- D. The codes and rates of all relevant individual accessories should be quoted separately with clear mention of period of validity of rates.

Environmental Factors

- A. The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%.
- B. The unit shall be capable of operating continuously in ambient temperature of 10-40deg C and relative humidity of 15-90%.

Standards & Safety

- A. Company should have relevant experience in successful execution of similar work in at least five Institutes of national importance and central or State Government institutions.
- B. Company should have at least 5 years of operations at the date of submission of tender.
- C. Bidder must enclose original literatures and technical data sheet in the support of the technical bid.
- D. Physical demo should be arranged at the time of requirement.
- E. Instrument quality should be of high quality and meet the international standard.
- F. Company should have ISO certified ISO 7153 or CE Certificate, Certificates should be provided along with the technical bid.
- G. Company should provide material certificates.
- H. The Instruments should carry Ledger marking indicating the Manufacturer's name and Batch No./Lot No. / Bar Code/QR code, and Country of Origin.



Warranty & Service

- A. Comprehensive warranty for 5 years and 5 years Comprehensive Maintenance Service after warranty. The cost of CMC must be quoted in the price bid.
- B. Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
- C. Principal manufacturer must have registered service centre in India. After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier.

Documentation

- A. Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable.
- B. Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document. Which should be highlighted. Alternative provided for noncompliant specifications with justification must be described in detail with supporting literature.
- C. Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier.
- D. List of Equipment available in the Service Centre for providing calibration of routine Preventive Maintenance Support as per manufacturer documentation in service/technical manual.
- E. List of important spare parts and accessories, which are required for maintenance and repair, with their part number and costing.
- F. Terms and conditions of warranty and CMC including schedules of visit by service personnel with check list of services to be carried out.
- G. Commitment for supply of log book with check list for daily, weekly, monthly and quarterly preventive maintenance with contact details of service personnel along with the equipment. The job description of the hospital technician and company service engineer should be clearly spelt out in the log book.
- H. List of users of quoted model with performance certificate from major hospitals.

ANNEXURE – IX

Inviting of sealed quotations for supply , installation, testing and Commissioning of medical equipments

DETAILS OF BIDDER

Name of Firm/Contractor/Supplier	
Complete Address & Telephone No.	
Name of Proprietor/Partner/Managing Director/Director	
Phone & Mobile No.	
Name and Address of service centre nearby Bhubaneswar	
Whether the firm is a registered firm Yes/No (attached copy of certificate)	
PAN No. (enclose the attested copy of PAN Card)	
Sales/Service Tax No. (enclose the attested copy of Service Tax Certificate)	
VAT No. (enclose the attested copy of VAT Certificate)	
Whether the firm has enclosed the Bank Draft/Pay Order/Banker's cheque of _____ as Earnest Money Deposit and _____ as Tender Fees.	
Whether the Firm/Agency has signed each and every page of Tender/NIT	
Please provide full list of consumables.	
Any other information, if necessary	

Authorized signatory of the bidder with seal



Annexure – X

FINANCIAL BID

(To be submitted on the letter head of the company/firm)

Sl.No.	Name of the Item	Quantity	Rate	VAT/Taxes etc	Total Amount

1. I / We have gone through the terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
2. No other charges would be payable by the Institute.

Authorized signatory of the bidder with seal



BIDDER FORM

Name of Firm : _____
 Address : _____

To

The Director
 National Research Institute of Ayurvedic Drug Development
 Bharatpur, Near Kalinga Studio, Bhubaneswar.

Sub: Tender for supply of Instrument and equipment for upgradation of NRIADD, Bhubaneswar

Sir,

I/We here by tender to undertake the supply of equipments/instruments under the annexed general conditions of contract, the whole of the items referred to and described in the attached specifications and schedule. , or any portion thereof as may be decided by the authority of the Institute as the case may be , at the rates quoted against each. The materials will be delivered within the time and at places specified.

1. Subject : Name of the item for which tender is give :
Tender No./
2. Full Name of the Tenderer _____

3. Consignee Officer/Institute Name : Director (Institute), National Research Institute of Ayurvedic Drug Development, Bharatpur, Bhubaneswar.
4. Amount of Tender Document Rs. _____ have been deposited in Cash (TR NO Dated)
D.D. No. _____ dated _____.
5. Income tax / Sales tax certificate enclosed – Yes/No
6. D.D. No. _____ dated _____ for Rs. _____ towards EMD drawn in favour of NRIADD, Payable at Bhubaneswar has been deposited.
7. I/we abide by the Terms/Conditions as enclosed with Tender/Document and will not violate in any case.

Place :

Name of the Firm with Seal

Date :

Signature of the Tender

Annexure : XII

CHECKLIST

Name of Tenderer :

Sl.No.	Activity	Yes/No/ NA	Page No. In TED	Remarks
01.	Have you enclosed EMD of required amount for the quoted schedules?			
02.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods visa-vis the Technical specification?			
03.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
04.	Have you kept validity of 180 days from the Techno Commercial Tender Opening date as per the TE document?			
05.	Have you enclosed duly filled Tender Form as per format			
06.	Have you enclosed Power of Attorney/Authorization in favour of the signatory?			
07.	Have you submitted manufacturer's authorization?			
08.	Have you submitted the certificate of incorporation?			
09.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
10.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			
11.	Have you intimated the name and full address of your Banker(s) along with your Account Number			
12.	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			
13.	Have you submitted the Quality Control Requirements as per proforma given the TE document?			
14.	Have you accepted delivery period as per TE document?			
15.	Have you accepted the terms of delivery as per 'DDP at consignee site basis'? 16 Have you accepted the warranty/CMC as per TE document?			
16.	Have you accepted all terms and conditions of TE document?			
17.	Have you fully accepted payment terms as per TE document?			
18.	Have you submitted copy of the order(s) against the above end user certificate(s)?			