

JIWAJI UNIVERSITY, GWALIOR

Tender No./Stores/2020/Pharmacy/167

Date: 20.07.2020

E-Tender Notice

Tenders on <https://mptenders.gov.in> are invited from the reputed and established manufactures/importers and authorized dealers for supply of Instrument as per tender document for SOS in Pharmacy.

The Tender Document along with all Terms and Conditions can also be seen on our website WWW.jiwaji.edu

S.No	Tender ID MP/JUG/Tender NO.	Description of work	Qty.	Estimates Cost of work	EMD	Cost of Tender
1	2020-JIWAJ/99208	Supply of Instruments for Pharmacy	06	13,59,000/-	75,000/-	3000/- (Non refundable)

1. Last date of purchase of tender on line 13.08.2020 up to 5:00 P.M.
2. Last date of submission of online price bid 14.08.2020 up to 5:00 P.M.
3. Last date of submission of earnest money, affidavit, other required documents and technical bid by speed/regd post up to 17.08.2020 time 5:00 P.M.
4. Opening of Technical bid 20.08.2020
5. The remaining term and condition, corrigendum and amendment related to above tender will be published on website only.
6. Registrar reserves the right to cancel, amend or extend the tender without assigning any reason.

Registrar

JIWAJI UNIVERSITY, GWALIOR

(Tender Notice)

Tenders are invited from manufacture / authorized suppliers for the supply of various Instruments for SOS In Pharmacy, details of tender and specifications are available at www.jiwaji.edu & www.mptenders.gov.in

Registrar

JIWAJI UNIVERSITY, GWALIOR

Tender No./Stores/2020/Pharmacy/167

Date: 20.07.2020

ONLINE e-TENDER NOTICE

Online tenders are invited through www.mptenders.gov.in from Manufacturer / Authorized distributor only, for supply of Instrument as per the tender document for SOS in Pharmacy

Tender document containing terms, condition & specification of the items can be downloaded from the e-procurement website www.mptenders.gov.in by paying Rs. 3,000/- online tender can also be seen at Universities website www.jiwaji.edu

Terms:

1. Online tender can be purchased up to 5.00PM till 13.08.2020
2. Online price bid can be submitted up to 5.00PM till 14.08.2020
3. Earnest money (EMD) and other documents can be submitted at Jiwaji University Stores through Speed Post / Registered Post up to 5.00PM till 17.08.2020
4. Online bid will be opened on 20.08.2020
5. All terms and conditions of the tender can be seen on above websites
6. Registrar Jiwaji University Gwalior reserve right to accept / reject / cancel any tender without stating any reason

REGISTRAR

जीवाजी विश्वविद्यालय, ग्वालियर

क्रमांक – JU/Pharmacy/2020/167

दिनांक - 20.08.2020

ऑनलाइन e-निविदा आमंत्रण

उपकरण खरीदने के लिए केवल निर्माता / अधिकृत विक्रेता से www.mptenders.gov.in निविदा आमंत्रित की जाती हैं जो की www.mptenders.gov.in से डाउनलोड की जा सकती है, इसके अतिरिक्त विश्वविद्यालय की वेबसाइट www.jiwaji.edu पर भी देखी जा सकती है

निविदा प्रपत्र समस्त टर्म्स कंडीशन्स एवं तकनीकी विवरण सहित www.mptenders.gov.in वेबसाइट पर Rs. 3000.00 की ऑनलाइन टेंडर फीस जमा करने पर डाउनलोड की जा सकती है

टीप

1. ऑनलाइन निविदा प्रपत्र क्रय करने की अंतिम तिथि 13/08/2020 सायं 5.00 बजे तक है
2. ऑनलाइन बिड डालने का दिनांक 14/08/2020 सायं 5.00 बजे तक है
3. धरोहर राशि एवं अन्य दस्तावेज स्पीड पोस्ट / पंजीकृत पत्र के द्वारा जीवाजी विश्वविद्यालय स्टोर में 17.08.2020 सायं 5.00 बजे तक प्राप्त की जाएगी
4. ऑनलाइन बिड खुलने का दिनांक 20/08/2020 निर्धारित है
5. निविदा के शेष समस्त जानकारी उपरोक्त दर्शायी गयी वेबसाइट्स पर देखी जा सकती है
6. कुलसचिव जीवाजी विश्वविद्यालय को बिना कोई कारण बताये निविदा स्वीकृत / अस्वीकृत / रद्दीकरण करने का अधिकार होगा

dqylfpo

Tender Form for supply of Instruments

SOS In Pharmacy, Jiwaji University, Gwalior 474011

Tender Form No. JU/Pharmacy/2020/167

Name of work : *Supply of Instruments*

*Last date for purchase of online Tenders: 13.08.2020 up to 5.00p.m.
through www.mpeproc.gov.in*

Last date for receiving online Tenders (Price bid) : 14.08.2020 up to 5.00p.m.

Last date for receiving EMD, Technical bid And other document : 17.08.2020 up to 5.00p.m.

Opening of Technical bid : 20.08.2020

Tender Cost : Rs. 3,000/-

Earnest Money Deposit (EMD) : Rs. 75,000/-

E-Tenders are invited from Reputed Manufacturers or their Authorized Representatives for the supply of Instruments specification as mentioned in the enclosed list. Tenders will be considered subject to the following terms and conditions.

- 1) All tenders must be accompanied by EMD (as applicable) for an amount mentioned above. Tenders received without earnest money will be liable to be rejected and may not be considered.
- 2) The tender document containing terms, conditions & specifications of the items can be downloaded from the website www.mptenders.gov.in by paying Rs. 3000/- online tenders can also be seen at Universities website www.jiwaji.edu
- 3) The bidder should agree to furnish a Bank Guarantee from a Nationalized Bank for up to 10% of the equipment, and should have validity for the entire Warranty Period.
- 4) The bidder should agree to execute an agreement for proper supply, installation and satisfactory working of the equipment exactly to the specifications mentioned.
- 5) The rates quoted should be FOR Gwalior. The prices should be inclusive of GST and other charges. However, the exact details of taxes should be given separately.

Signature of the Bidder with seal

- 6) This institution is exempted from payment of Central Excise duty in terms of Govt. Notification No. 1097-Central Excise dated 01/03/1997 and modifications thereafter Copy of necessary certificate will be provided by the University.
- 7) For imported equipments: The institution is registered with Department of Science and Industrial Research (DSIR) Govt. of India vide Government Notification No. TU/V/RG-CDE(56)/2009, dated 26.11.2009 and is exempted from payment of custom duty.
(Necessary certificate copy shall be provided by the University. The bidder shall be responsible for getting the consignment cleared and deliver the goods. The expenses on the same must be included in the cost of the equipment)
- 8) The transportation up to Jiwaji University should be undertaken by the supplier and prices should be included in the bid. All relevant documents shall be provided by the University
- 9) The manufacturer's name, their trademark and brand should invariably be mentioned in the tender and illustrated leaflets giving technical particulars/ details etc. should be attached with the quotation to facilitate consideration of the offer.
- 10) The Bidder should quote their best willing price which should be valid for the period of 120 days from the due date of tender.
- 11) The period of delivery of the equipment should be quoted.
- 12) The tender should avoid the use of vague terms such as "extra as applicable".
- 13) Printed conditions on the back of the offer submitted will not be binding unless separately mentioned
- 14) E-tender along with terms and conditions must be submitted separately so that for individual item separate comparative statements could be prepared.
- 15) Advance payment either direct or through bank will not be accepted under any circumstances. As per rule, full payment will be made after receipt of material, inspection thereof and after satisfactory installation and working of the entire equipment. Payment through LC is acceptable in case of imported equipment only.
- 16) The tenderer should clearly state regarding charges for maintenance, etc. of the equipment, if any. Installation should be done free of cost.
- 17) Offers received not according to our terms and conditions and within the time prescribed shall be rejected. Delay due to postal services of any kind will not be considered for acceptance of the tender.
- 18) In all matters of dispute the decision of Registrar, Jiwaji University, Gwalior shall be final & binding on the Bidders.
- 19) The address of Customer Care Centre for maintenance along with the list of well-reputed organizations that have purchased the same equipment or similar equipment should be provided

Signature of the Bidder with seal

- 20) In case of an authorized dealer, a copy of the current Certificate from Manufacturer must be attached as proof.
- 21) The date and time of opening of tender is 20/08/2020 **at 3.30pm** in the presence of intending Bidders or their representative who may like to be present in the office of the registrar, Jiwaji University, Gwalior.
- 22) If any of the dates of the receipt /opening of Tender happen to be declared as holiday, the schedule will be shifted to the next working day automatically. The University reserves the right to change the date.
- 23) The Sealed Tender envelope should contain two sealed envelopes.
- A. The “First envelop should be Super scribed as ‘Technical Bid this should contain the specifications of the equipment and terms & conditions of supply, and the questionnaires for terms of supply and the specification sheets (supplied by the University along with Tender document) duly checked yes/no etc. No price should be mentioned.
- B. The ‘Second’ sealed envelope should be super scribed as ‘EMD and should contain the Earnest money and receipt of Rs. 3000/- paid through www.mptenders.gov.in

The above two sealed envelopes must be placed in one sealed envelope and should be super scribed “Tender No, for (name of item), to be opened on 04/08/2020” Only those tenders which fulfill the technical specifications shall be considered for opening of the commercial bid.

Financial bid to be submitted online only.

- 24) Sealed envelopes should reach the Registrar, Jiwaji University, Gwalior -474011 on or before 17/08/2020, by 5.00p.m. by Speed Post/ Registered Post only.
- 25) The prices charged for the items supplied by successful Tendered shall in no event exceed the lowest price at which the successful Tender sells the same items to any other persons during the period of supply to the University.
- 26) If any time, during the period of supply, the tender reduces the sales price chargeable for any item, he shall forthwith notify such reduction to the Registrar, Jiwaji University, Gwalior, and the price payable for the items supplied after the date of coming into force of such reduction or sale shall stand corresponding reduced.
- 27) All the accessories are to be treated as one unit and separate tenders are not required for each accessory. The cost of Essential Accessories will have to be included in the total cost of the equipment.
- 28) Performance reports and List of organizations in India (along with phone numbers of users) who have been supplied the same (or similar) model of the equipment should be provided.
- 29) Canvassing for support in any form for the acceptance of any tender is strictly prohibited. Any tenderer doing so will tender himself liable to the penalties, which may include removing of his name from the register of approved Suppliers.

Signature of the Bidder with seal

30) The bidder shall forfeit the EMD if we find the bidder providing any false information and no further communication in this respect shall be entertained.

**Registrar
Jiwaji University**

I/We accept the terms and conditions of the tender and understand the decision of the University shall be final and acceptable to me /us

**Signature and Seal of the Tenderer
With Date**

Jiwaji University, Gwalior

Annexure-1
(To be enclosed with the Technical Bid)

Tender for Instruments

Tender No./Stores/2020/Pharmacy

Name of the party submitting:
the Tender

To
The Registrar
Jiwaji University
Gwalior 474 011, MP, India

Dear Sir,

1. I/We hereby submit our tender for : _____
2. I/We am/are enclosing herewith EMD No.Dated.....For Rs..... drawn in favour of the “ The Registrar, Jiwaji University, Gwalior” towards EMD, and Receipt dated..... For Rs. _____ towards tender fee paid through www.mpeoproc.gov.in (TENDERS NOT ACCOMPANIED WITH EMD ALONG WITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED).
3. I/We have gone through all terms and conditions of the tender documents before submitting the same.
4. I/We hereby agree to all the terms and conditions, stipulated by the Jiwaji University, in this connection including delivery, warranty, penalty, etc. Quotations for each item are being submitted under separate covers, and shall be considered on their face value.
5. I/We have noted that overwritten entries shall be deleted unless duly cut & re-written and initialed.
6. Tenders are duly signed (No thumb impression should be affixed)
7. I/We undertake to sign the contract/agreement, if required, within 15 (Fifteen days) from the date of issue of the letter of acceptance, failing which our/my earnest money deposited may be forfeited and our/my name may be removed from the list of suppliers at Jiwaji University, Gwalior.

Yours faithfully,

Signature of Tender(s) with full Address.

CHECK LIST FOR TERMS AND CONDITIONS

Check list for Terms and Conditions (To be filled by the bidder and submitted along with the technical bid). Supporting documents must be numbered serially and the same must be indicated here on this page. These documents should be placed inside the envelope containing technical bid.

1. Certificate of Manufacturer / Indian Subsidiary of the Manufacturer / Authorized Representative in India, enclosed.
2. List of organizations supplied with the equipment or similar equipment (at least 03 in India)_____
3. Whether the quoted price is – FOR Gwalior:
4. Whether rates are quoted as per tender's specifications _____
5. Quotation being submitted directly by the manufacturer or authorized representative _____
6. Quality assurance certificate like ISI, ISO 9002, IP/BP or any other, please specify.
7. Proof of tendering firm having filled IT Return for FY 2016-17, 2017-18 & 2018-19 attached

8. EMD amounting is enclosed 75000/-_____
9. Copy of GST registration attached_____
10. Tender fee Receipt of MP Online enclosed_____
11. Literature of original catalogue of the product and accessories are attached for
reference_____
- 12 Comprehensive Guarantee/Warranty for a period not less than Three year: YES/NO.

(SIGNATURE OF THE BIDDER WITH NAME & SEAL)

(To be enclosed with the Technical Bid)

1	Reputed manufactures of equipment (specified in the tender notice) or their Authorized agents with well established sales and services facilities only need to respond to the tender notice.	Confirm / do not confirm to Requirement
2	Separate quotation must be submitted for each item specified in the tender notice. Taxes, duties, packing & forwarding charges, transport and insurance charges may be separately indicated where applicable	Complied/ Not compiled
3	The make model no. detailed specifications, illustrative pamphlets must accompany the quotation without which the quotation are liable to be rejected.	Complied/ Not compiled
4	In case the bidder is an authorized agent, documentary proof to this effect must be enclosed with the quotation.	Enclosed / not Enclosed
5	Bidders detailed company profile, information on after sales/ service and test facilities available along with address and telephone no. of sales office and service centre catering to Gwalior must be given along with the quotation. Details of product & application support available may also be indicated.	Information enclosed / not enclosed
6	The bidder must indicate whether he is willing to supply complete circuit diagram, wiring diagram component layout diagram, service manual and component identification catalogue along with the equipment free of charge in case an order is placed with him. The supply of this literature will be considered as part of supply of equipment offered.	Will be supplied/ Cannot supply
7	The bidder must furnish a list of customers to whom the equipment quoted has been supplied preferably in Central/Northern India. Name and contact telephone no. of the customers may be furnished.	Enclosed / not enclosed
8	Quotation must be furnished in sealed envelopes separately for each item quoted under the tender. The name of the item quoted and tender notice particulars should be clearly indicated on top of the envelope	Complied/ Not compiled
9	Bidders are requested to carefully go through the specifications given in the tender and quote only when they are sure they have product specified to offer.	Complied / not complied
10	Warranty details and terms and conditions of warranty must be given. If any component of the equipment quoted is not covered by the warranty, the same must be specified.	Complied / not complied
11	The bidder will furnish a test certificate along with complete test result and the test conditions for the equipment specifications offered in case an order is placed.	Agreeable / Not agreeable
12	(a) If an order is placed with the bidder, the bidder will install and test the equipment to its specifications at site of installation free of charge. (b) If it is not possible to test some specifications, the same may be indicated.	Agreeable / Not agreeable Agreeable / Not agreeable
13	Performance guarantee: In case the Purchase Order is placed, 10% of the equipment value has to be submitted as performance security deposit in the form of bank Guarante till the completion of warranty period.	Agreeable / Not agreeable
14	The bidder(s) must carry validation test at the site of installation at their own cost.	Yes / No

Note:

- 1) Unless the questionnaire is completely filled in and detailed information provided as required, your offer is liable to be rejected.
- 2) Complete questionnaire should be signed by the bidder and sent along with the quotation in the Technical Bid.

Further Instructions

1. The Technical bid should be enclosed separately in sealed covers. This is to ensure that if the technical bid qualifies with the laid down specifications and configurations, only then the price bid will be opened. The envelopes should be carefully super scribed as has been mentioned earlier.
2. EMD: EMD and Tender Fee Receipt should be kept (together) in a separate Sealed Cover (EMD cover)
3. The technical bid must have the following enclosures:
 - a. True copy of technical bid. All items quoted must be clearly indicated.
 - b. Detailed literature, illustrative pamphlets, company profile, customers list & questionnaire duly filled and tender form along with Annexure 1-3 duly signed.
4. The two sealed envelopes (i. Technical bid and ii. EMD) should be kept in the outer sealed cover.
5. Authorized dealers should submit a copy of valid dealership certificate along with quotation.
6. The last date for submitting e- tender is 14/08/2020_by 5.00 P.M.
7. Late/delayed offers will not be accepted.
8. In event of any date indicated above is a declared holiday the next working day shall become operative for the respective Purpose mentioned therein.
9. The technical bids will be opened in the presence of the bidders or their authorized representatives on 20/08/2020 at 3.30 pm, in the University Office, Jiwaji University, Gwalior. It is the responsibility of the bidders to prese/nt themselves at the time of opening of the technical bids.
10. The Registrar of Jiwaji University reserves to accept or reject any offer in part or whole without assigning any reasons whatsoever.
11. The tender document can be downloaded from the website www.mptenders.gov.in The download tenders should be accompanied by receipt of Rs. 3000/- paid through www.mptenders.gov.in towards the tender fee.

Signature of the Bidder

// AFFIDAVIT//

(To be submitted along with Technical Bid)

I/We.....who is/are
.....(status in the firm/company) and competent for submission of the
affidavit on behalf of M/s.....
(Contractor) do solemnly affirm an oath and state that:

I/we, am/are fully satisfied for the correctness of the certificates / records submitted in support of the following
information in bid documents which are being submitted in response to notice inviting e-tender
No.....for.....
(name of work) datedissued by the(name of the department).

I/we am/are fully responsible for the correctness of following self-certified information/document and certificates:

1. That the self-certified information given in the bid document is fully true and authentic.
2. That:
 - a. Demand draft deposited as earnest money, demand draft for cost of bid document and other relevant document provided by the bank are authentic .
 - b. Information regarding financial qualification and annual turnover is correct.
 - c. Information regarding various technical qualifications is correct.
3. No close relative of the undersigned and our firm/company is working in the department.

OR

4. Following close relative are working in the department:

Name.....Post.....Present Posting.....

Signature with seal of the deponent (bidder)

I/We.....above deponent do hereby certify that the facts mentioned in above
paras 1 to 4 are correct to the best of my knowledge and belief.

Verified today(Dated) at.....(place)

Signature with seal of the deponent (bidder)

JIWAJI UNIVERSITY, GWALIOR

COMMERCIAL BID (ONLINE) FOR PURCHASE OF INSTRUMENTS

1. Name of the Firm :-

.....

2. Address of the Firm :-

.....

3. Name of the Proprietor / Partner / Director of the Firm :-

.....

4. Telephone No. :-

.....

Sr. No.	Equipment	Rate / Item	
		CURRENCY	
		In Figure	In words
1.	BOD Incubator		
2.	Humidity Oven		
3.	Automated Hematology Analyzer		
4.	Tissue Homogenizer		
5.	Plethysmometer		
6.	Animal Simulator software		

(SIGNATURE OF THE BIDDER WITH NAME & SEAL)

TECHNICAL SPECIFICATION

BOD Incubator – 1 no.

Double wall construction, the exterior is made of sheet steel while the inner chamber is made of stainless steel, capacity 450Ltr, 16CFT

Salient Features:

- Temperature range 5C to 60C
- Unique design of thermal barrier for better energy efficiency
- Machine filled PUF insulation to eliminate void pockets
- Powerful fan motor for force air circulation to maintain uniform conditions inside chamber
- Heating by long life SS tubular heaters
- Chamber calibration port on side
- Adjustable trays
- Hermetically sealed Compressor with CFC free refrigerant
- High temperature safety cut off & alarms for high / low set parameters
- Sensor failure alarm
- Electrical circuit breaker
- Time delay for compressor switch on
- Overload cut off relay for compressor
- Rounded inner chamber for easy cleaning
- Attractive door profile
- Microprocessor controller
 - Safety thermostat to power over heating
 - Audio visual alarm warning of Temperature variation
 - High voltage safety cutoff for unit protection
 - Plexi glass inner door to inspect specimens

Touch Screen Display

- 7 inch big colour touch screen
- PLC (programmable logic controller)
- Memory of 10,000 records
- Centronic interface to record Temperature, Date & Time by attaching Dot Matrix printer with adjustable print interval
- PC communication through software
- Ethernet port
- Battery backup in case of power failure for display, alarms & off-line data logging (optional)
- Programmable cyclic timer for controlling illumination conditions

Data Soft

- Multiple level alpha numerical password with password ageing
- Secured audit trail report
- Alarm report with mention of alarm condition
- Mean Kinetic Temperature able to be calculated for any days & alarm deviation report
- Reports in graphical and tabular form
- Data Stored in PC server with LAN connectivity and can be monitored on any PC with password authentication
- Multi chamber data acquisition on single software
- GSM mobile Alert for six Numbers

Accessories

- Chamber illumination with 2 Nos. ultra violet lights
- 24 hours Cyclic Timer for regulating illumination conditions
- Software as per 251 CFR Part 11 requirements

Humidity Oven – 1 no.

Outer wall made of CRC sheet duly powder coated and inner wall and trays made of Stainless Steel (SS-304), Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller, Temperature from ambient +5°C to 60°C $\pm 1^\circ\text{C}$, LCD display.

Humidity is generated and controller through a DIGITAL HUMIDITY INDICATOR –CUM-CONTROLLER from ambient to 95% RH $\pm 3\%$ RH.

Size: 650x580x900mm, 340 ltr, 12 Cuft

Automated Hematology Analyzer– 1 no.

Throughput:60 samples/hour, **Sound Level:**53 dBa

Operating Temperature & Humidity:+ 15°C (+59°F) to + 30°C (+ 86°F)

Relative humidity of 30%-80% maximum, without condensation

Should be five/six part automated hematology analyser with PL-CC and P-LCR, Should be 2/3 reagent based per analysis

Should be based on Cytochemistry and semi conductor laser based Flow Cytometry.

Direct Colour reporting with complete cell volume axis, NO PC required

Sample volume should be up to 20ul for DIFF

HCT Measurement: Method: analogical integration

Calculation: MCV, MCH, MCHC, RDW-CV, RDW-SD*, PCT*, PDW*, P-LCC-, P-LCR*, PDWSD, PDWCV

Data Processing

Color LCD touch screen: minimum 10.0 Inch, Operating System:Window

Connection: RS232, Ethernet, USB, Communication: ASTM protocol

Capacity: 10 000 results + graphs, keyboard, mouse and bar code reader

Quality Control

3 controls levels (low, normal, high)Target values download (USB)

QC results compatible with Other Medical Quality Control Program (QCP)

Levey-Jennings graphs, XB on 3 or 9 parameters, mean value of 20 runs

26+03 Parameters:

WBC	RBC	PLT
NEU# & NEU%	HGB	MPV
LYM# & LYM%	HCT	PCT*
MON# & MON%	MCV	PDW*
EOS# & EOS%	MCH	P-LCC*
BAS# & BAS%	MCHC	P-LCR*
LIC# & LIC%	RDW-CV	RDW-SD*
ALY# & ALY%	NRBC%&NRBC#	PDW-SD
		PDW-CV

Linearity:

WBC	0 – 300	300 – 600	$10^9/\text{L}$
RBC	0 – 8	8 – 18	$10^{12}/\text{L}$
HGB	0 – 240	240 – 300	g/L

HCT	0 – 67	67 – 80	L/L
PLT	0 – 2500	2500 – 4000	10 ⁹ /L

Precision (Repeatability):

WBC	<3.0	4 – 100	10 ⁹ /L
RBC	<2.0	3.6 – 6.2	10 ¹² /L
HGB	<1.5	120 – 180	g/L
HCT	<2.0	0.36 – 0.54	L/L
PLT	<5.0	150 – 500	10 ⁹ /L

Tissue Homogeniser – 1 no.

- System should be fast disruption of up to 48 or 192 samples in minutes through high-speed shaking with beads, which beat and grind samples.
- System should be capable to processing of samples up to 2 x 24 wells (2ml capacity) or 2 x 96 (96 well plates) take as little as 2-4 minutes.
- System should do effective disruption and homogenization.
- System should reproduce results with difficult-to-lyse tissues in horizontal vibration shaking.
- There should no cross-contamination, as each sample should sealed.
- It should disrupt multiple biological samples through high-speed shaking in plastic tubes with stainless steel, tungsten or glass beads.
- System should do a wide variety of samples, including animal and plant tissues, bacteria, and yeast, can be disrupted to release high-quality DNA, RNA, and protein for subsequent purification and analysis.
- System is suitable for dry and wet both grinding.
- System is compatible with dual adaptor for 2.0 ml and 96 well plates adaptor set.
- The system has digital pre-selection of vibrational frequency 3-30Hz (180-1800min-1).
- System is quick, efficient pulverization and homogenization.
- High sample throughput due to short grinding times and two grinding stations.
- System should not create noise more than 65 (dB)A.
- Reproducible results by digital pre-selection of grinding time from 10 second to 99 minutes.
- CE-conform

Accessories:

Dual adaptor set for 48x2 ml tubes, as well as 2x96 well plates

3 mm size SS bears (200 nos)

5 mm size SS beads (200 nos)

PLETHYSMOMETER – 1 no.

Digital Plethysmometer to provide highly useful tool in the measurement of small volume changes. Micro processor controlled, with measuring cell for Rat and Mouse, with data acquisition software for multiple users, No need for calibration, pedal switch & surfactant, Must be able to save n – of sequences & experiments, Auto save reading facility, must have facility to save correct reading in report (no edit option for date & time), with battery backup, with high reading stability, must have reading display in front and on PC screen as well, can use same immersion holder for Rate & Mice.

Animal Simulator Software – 1 no.