



Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY
G T Road By Pass, Jalandhar-144011, Punjab (India)
Tel: 0181-2690301-2690453 PBX Fax: 2690320 website www.nitj.ac.in

Ref. No: NITJ/PUR/94/19

Date: 04.10.19

TENDER No. NITJ/PUR/56/2019

National Institute of Technology, Jalandhar invites tender for Purchase of Spirometer for the Department of Industrial and Production Engineering of the institute as detailed at Annexure – “A” along with Tender Fee & EMD as per details given below:

Sr. No.	Name of the Equipment
1	Spirometer

I	Downloading & Submission of Tender	Start Date: 04.10.2019 at 03:00 PM
		End Date: 25.10.2019 upto 03:00 PM
II	Physical submission of Tender, Tender Fee and EMD	End Date: 25.10.2019 upto 03:00 PM
III	Opening of Tender Bids	28.10.2019 on 12:00 Noon

Detailed Terms and Conditions are available in tender document. The bid document can be downloaded from the [CPP Portal](#).

Complete tender document is also available on Institute's website www.nitj.ac.in. Only physical tender will be accepted.

Registrar



Annexure-A

Sr. No.	Name of the Equipment	Qty	Tender Fee	EMD
1	Spirometer	02	Rs.500/-	Rs.1000/-

Tender fee of Rs.500/- in the form of DD in favour of **Director, D R B R Ambedkar NIT, Jalandhar must be submitted**

EMD of Rs.1000/- in the form of DD in favour of **Security- A/c, DR B R Ambedkar NIT, Jalandhar must be submitted.**

If the bidder is exempted for payment of Tender Fee and EMD as NSIC/MSME registered bidders, then bidder is required to submit NSIC/MSME exemption certificate for same. The Certificate must be valid as on last date of submission of bid.

***Exemption of Tender fee & EMD will only be given to MSME/NSIC registered bidders.**

Bids should reach at following address before the last date of receipt and time.

***Kind Attention: Purchase Section,
Director***

***Dr. B.R. Ambedkar National Institute of Technology, Jalandhar
GT Road, By Pass, Jalandhar-144001***

The tenders will be opened by the committee duly constituted for the purpose on due date and time in the presence of the bidders, whom so ever may wish to be present.

1. All the bids/enquiries should be addressed to the Director, Dr B R Ambedkar National Institute of Technology, Jalandhar.
2. In case of non –compliance of instructions and all the terms & conditions, the offer will not be considered.
3. The institute being an Educational Institution, a special rebate/discount may be allowed.
4. Bids without GST number will be invalid.
5. The supplier must upload the original manuals / catalogue and make/ model of the Equipment /Item. Otherwise bid is liable to be rejected.



IMPORTANT NOTE

The offers must be submitted in a sealed envelope duly super scribing the bid for the purchase of Spirometer for the Department of Industrial and Production Engineering with Due Date and Time on the cover of envelope. The Bids received late, will not be considered.

1. All corrigenda, addenda, amendments and clarifications to Notice Inviting tender will be uploaded on the website www.nitj.ac.in and CPP Portal, Bidder shall keep themselves updated with all such developments.
2. In case the last date of receipt/ opening of Bid falls on holiday, the bids shall be opened on the next working day at same time.
3. The Bid should be neatly typed. Any deviation in the offer shall lead to rejection.
4. Bid(s) received after last date of offer submission will be rejected. No offer will be entertained by Email/FAX.
5. Supplier must mention Full address with Telephone No., Fax No. & E mail on their envelop also.



Annexure-I

**FOLLOWING TERMS AND CONDITIONS MAY BE CAREFULLY STUDIED AND
COMPLIED BEFORE SUBMITTING BIDS**

1. Name, complete address of the bidder with telephone No., Fax No. & Email must be mentioned.

2. Location of Head office with complete address, with telephone No. Fax No. and Email must be mentioned.

3. The bid must be quoted duly typed on the letter heads of the supplier / manufacturer duly mentioned full address, GST No./ PAN No./ TDS No. / TIN No. and must be in a sealed cover which should be superscribed Bid for

_____ Bid No. NITJ/Pur/ dt:_____

4. Telefax /E-mail and other incomplete offer will not be considered.

Read and Accepted

Signature of the Bidder
With Stamp



5. All bids will be deemed to be FOR NIT, Jalandhar unless otherwise specified and should include packing and forwarding charges.
6. If quoting otherwise than FOR NIT, Jalandhar, insurance charges from place of loading to destination shall be borne by the supplier.
7. All bids will be valid for at least 90 days excluding the date of opening.
8. Illustrated literature and catalogue must be furnished along with bid.
9. The supplier must intimate whether he is manufacturer, dealer or supplier. In case of supplier or dealer the authorization from the manufacturer is required and copy of the same must be enclosed with the bid.
10. The institute being government educational institute is having excise and custom duty exemption in terms of government notification No. 51/96-customs Dt. 23-7-1996 and No. 10/97-central excise Dt. 1-3-1997 as amended from time to time, therefore rates be quoted accordingly.
11. Rate should be quoted in the Indian rupees only. Delivery period must be mentioned.
12. The successful supplier will have to submit an amount of @ 5% of the total value of the offer in shape of Performance Bank Guarantee upto the period of warranty period of the Equipment before releasing the 100% payment (for equipment which costs more than rupees 01 Lacs Individually)

Read and Accepted

**Signature of the Bidder
With Stamp**



13. Bid received after the due date will not be considered unless the date is extended.
14. The make/model and country of origin must be specified. Detailed Warranty period of the equipment should be clearly mentioned. The after sales service policy on expiry of warranty period may also be clarified and address of the sales service center be intimated.
15. It may be stated clearly whether the items quoted are available in stock. If not the minimum period of supply of goods/services be indicated.
16. Percentage of taxes to be charged must be clearly stated.
17. All containers will be deemed to be non-returnable, unless specifically stated in the bids.
18. Inspection of goods/services will be carried out by the consignee or the Inspection Committee at the destination and rejected goods will have to be taken back within 10 days from the date of dispatch from the indenting officer, failing which the quotee shall be responsible for the loss.
19. The rejected goods must be replaced within 15 days of the dispatch by the indenting officer, failing which indenting officer will be entitled to make arrangements of its disposal without any further reference.
20. If there is any dispute/doubt, the decision of the Director, Dr. B. R. Ambedkar National Institute of Technology, Jalandhar shall be final.
21. All disputes are subject to Jalandhar Jurisdiction.



22. Certificate to the effect is to be provided that the Prices quoted by you are lowest and is not more than the Price charged from other Educational Institutions/ R & D departments in India.
23. Details of training and the cost if any in the institute be intimated.
24. The supplier who quote the equipment, must provide terms & conditions, upgrade policy and installation etc. and maximum discount allowed to the institute being an Educational Institution be supplied.
25. 100% payment will be released against Physical delivery, inspection, Installation of the material and having the satisfactory working performance report of the equipment/material and submission of 5% PBG by the supplier (Wherever applicable)
26. The quantity of material may vary as per requirement.
27. Penalty: On Account of delay, Director NIT Jalandhar reserves the right to impose 0.5% (half percent) penalty per week on account of delay in supply, if delivery received after expiry of the original delivery period. The total penalty will not exceed 10% of the value of the delayed Goods.

Read and Accepted

**Signature of the Bidder
With Stamp**



Annexure-II

Technical Specification and Feature of Spirometer

Features:-

- USB Powered ergonomic handset
- Detachable and easy to disinfect digital turbine transducer
- Best maneuver selection (Audio/ Manual)
- FVC, SVC and MVV tests
- Indian Predicted equations
- Ethnic corrections
- Pediatric incentives
- Lungs age calculation
- Flow-Volume / Volume – Time graphs
- Pre-Post bronchodilations Test
- Trends
- Investigator Doctor's Note
- Auto-Interpretation
- Customized Printing options (Single and all Curves)

Specification

1. Spirometer

Flow Range	-10 to +16 liters /sec
Max Volume	8 Liters
Accuracy	+1% (using a standard 3L Calibration syringe)
Transducer	Bi-Directional Turbine Cartridge
Turbine sensor	Infrared interruption
Flow detection	Volume Differential

2. Safety Regulatory

Standards

IEC60601-1 1990/A1 1993 IEC 60601-1-2:2001, ENISO 13485 2003 ISO 14971-2000 EN980 2003

Directives

MDD	93/42/EEC
EMC	89/336/EEC

3. Minimum PC/Laptop Configuration

Compatibility with OS: Windows7 Professional 32bit also with Windows 10 professional 64 bits, Processor: 1-7 8th generation or higher. RAM 8GB or higher, 1TB Hard Disk or higher. CD/DVD Optical Drive, Screen Resolution 1024*768 or Higher

4. Measured Parameters

Forced Vital Capacity

FVC	FEV3	FEV5/FVC%	FIF50%	FIV5
FEV1	PIFR	FEV3/FVC%	FOF75%	FIV1
FEV1/FVC%	FEF75-85	FET	FEV75	FIV3
FEF25-75	FEF 2-1,2	Exp Time	FEV1/FEV6	FIV5/FVC
PIFR	FEF25%	Lung Age	FEV75/FVC	FIV1/FIVC
FIVC	FEF50%	Fev6	FEV6	FIV3/FIVC
FEV5	FEF75%	FIF25%	FIF25%	
Slow Vital Capacity				
SVC	VE.	Te	Ti/Tiot	
ERV	Rf.	VT	IC	

22/11/2019



IRV	Ti	VT/Ti		
Maximum Voluntary Ventilations				
MW	MVT	ET/IT		
MRI	ET	IT		

5. Predicted Equations

ERS 93, (TS Black, ITS White Khudson 83, Barcelona LAM and Indian Predicted Equations

6. General

Power Supply	USB Powered
Communication Interface	USB
Dimensions	150mm x 35 mm x 25 mm
Weight	120 gms approx. (Handset only)

7. Hardware & Accessories

Component	Quantity
Hand Set	01
Turbine Transducer	01
Software CD	01
USB Cable	01
Reusable Mouth Pieces	01
Adult Nose Clip	01
Pediatric Nose Clip	01
Carry Bag	01
User Bag	01
User Manual	01
Disposable Mouth Pieces	10

20
15/07/2019