S.R.E.No.01/17-18/CRHSP-AIIMS /Ballabgarh   Dated the: 13.07.2017

For Purchase of : Desktop Spirometer – 01 No.

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      The sealed quotations are invited by post/per bearer (under two bid system) in two separate sealed covers duly marked as "PRICE BID & TECHNICAL BID" (as the case may be) and both packed in other single envelope mentioning name of the quoted item for the supply of item detailed below which are required for CRHS Project, Ballabgarh.

      The quotations duly signed and marked as **"SRE No.01 /17-18/project/CRHSP/Ballabgarh/"** (PRICE BID & TECHNICAL BID separately) should reach the office of the Professor In-charge, CRHSP, Ballabgarh on or before **28.07.2017 at 5.00 P.M.** All quotations should be type written. All over writing and erased entries will not be considered and treated as deleted entries from the quotations. The rates should be valid at least for one year. **A clause by clause compliance statement should be submitted, failing which the quotation will not be considered.**

      The tenders are required to enclose with the quotation an **Earnest Money of Rs.5,000/- (Rupees Five Thousand only) through a demand draft/pay order drawn in favor of the "Director, AIIMS", failing which the quotation will not be considered.** In case of failure to comply with the supply order in terms of the contract, purchase will be made at the cost and risk of the contractors and or liquidated damages may be recovered from them. The period within which the goods can be supplied from the date of issue of the supply order should be specified.

      The offers submitted as quality A, B, C, & D etc., will be summarily rejected, any alteration/over writing in the specification / rates shall not be considered at all.
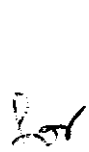
The opening of quotations/tenders (technical bid only) will be intimated to the bidders separately. The quantity shown in the Short Rate Enquiry can be increased or decreased to any extent depending upon the actual requirement.

Terms and Conditions:-

1. Two years comprehensive warranty with replacement & 03 years CMC..
2. Standard AIIMS terms & conditions will also apply.

The firm should submit the following:-
1. A clause by clause compliance statement should be submitted.
2. Price Reasonable Certificate.
3. An undertaking on the official letterhead of the company that the firm has not been black listed.
4. An undertaking on the official letter head of the company that no Vigilance case is pending against the firm.

                                    Dr. *Shashi Kant)*
                                      HOD, CCM &
                                    Professor-in-charge
                                    CRHSP, Ballabgarh

Desktop Spirometer Specifications

The system should be light weight, stand alone with built in Printer, Display and Alpha numeric Keypad to perform screening spirometry tests including FVC (Pre-post), MVV, SVC, Respiratory Pattern, Broncho Challenge test.. It should have facilityto down load tests to the computer and also to perform real time testing on the computer directly. The spirometer must meet ATS/ERS standards.

It should be able to measure the following parameters:

Forced Vital Capacity (Pre-Post): FVC, FEV1, FEV6, FEV1/FEV6, FEV6/FVC, PEF,PIF, FEV1/FVC, FEF25-75, FEV1/VC%, %FEV1, MEF25%, MEF50%, MEF75%, FET100%, VEXT, PEFT, BEST FVC, BEST FEV1

Bronco Challenge Test (Dose Response): PD10, PD15, PD20 with automatic diagnosis of COPD

Slow Vital Capacity: ERV, IRV, VE, IVC, VC, VT, Rf, ti, Te, Ttot, Ti/Ttot, Vt/Ti, TLC,

RV, RV/TLC, IC

Maximum Voluntary Ventilation: MVV, MVt, MRf, VE

Internal Memory: >500 Tests/Patients

BTPS Correction: Automatic by means of in-built Temperature Sensor.

Display: The system should have a 320X240 Graphic Display

Printer: Thermal.

Weight: Should be less than 1.5 kg

Power Supply: Should be able to operate from mains as well as battery.

Flow meter: Should be digital Bi-directional Turbine with a flow range of 0.03 to 16 L/s, volume range 12 L, Accuracy FV: + 2% Interface: It should have both USB as well as RS232 interface. Software: Software compatible for Windows 8/10 should be supplied with the equipment.

Software : The system should be supplied with Spirometry software compatible with

Windows 8/10

Certifications : The system should have ISO/CE(Europe) and US FDA certifications