



अखिल भारतीय आयुर्विज्ञान संस्थान, नागपुर

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR

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No AIIMS/NGP/Peds/24-25/33 / *Com.Obj: 14490*

Date: **24**/03/2025

Invitations for Comments / Objections

Subject: Proposal for Purchase of New Asthma Combo System for Department of Pediatrics at AIIMS Nagpur –Inviting Comments/ Objection thereon.

The Institute is in the process of purchasing **Asthma Management Comprehensive System** for Department of Pediatrics at AIIMS, Nagpur from **M/s Biotronics Equipment Pvt. Ltd Thane** who is authorized supplier of **M/s Medisoft Belgium**. The proprietary certificate and Authorization form submitted is attached & uploaded on website.

The above documents are being uploaded for open information to submit objection / comments, if any from other manufacturer regarding proprietary nature of the above said system and accessories/consumables within **15 days** from the date of issue/uploading of the notification. The comments should be sent to **Central Procurement Cell, Plot No. 02, Sector-20, MIHAN, AIIMS Nagpur-441108** or through Email to procurement@aiimsnagpur.edu.in on or before **07/04/2025** up to 5:00 PM, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

[Handwritten Signature]
Administrative Officer
AIIMS Nagpur

रोहन एल. बागडे / **Rohan L. Bagde**
प्रशासनिक अधिकारी / **Administrative Officer**
अ.भा.आ.सं. नागपुर / **AIIMS, Nagpur**

Enclosure: Related documents enclosed

Asthma Management Comprehensive System

Device for measurement of endogenous NO in exhalation by On-line and Off-Line methods with built in spirometry and force Oscillometry for Pediatric Patients with single combine report at one station.

System for Measurement of Bronchial FeNO and Inflammation of respiratory tracts with builtin spirometry (Pre and Post) with screen type pneumotach and force oscillometry for respiratory impedance and reactance.

It should have FeNo+ measurements in different levels of the respiratory tract bronchial; alveolar, nasal and Spirometry test FVC,SVC MVV (Pre and post)suitable for Pediatric.

It should have following measurement protocols,

- i) Classical pseudorandom noise (5-37 Hz)
- ii) Within-breath single (5, 6, 8, 10 Hz) frequency
- iii) Innovative within-breath multiple (5 + 11 + 19 Hz) frequency
- iv) Special frequency for Pediatric Patients: 8Hz

Parameters to be measured :

Single/Multiple Frequency

Rinsp: Mean inspiratory resistance,

Rexp: Mean expiratory resistance,

Rtot: Mean resistance,

Xinsp: Mean inspiratory reactance,

Xexp: Mean expiratory reactance,

Xtot: Mean reactance,

EFL index, ΔXrs for detection of expiratory flow limitation, Heterogeneity index,

It should provide graphical representation of resistance and reactance with normal and abnormal range.

It must have breath by breath measurement of resistance and reactance

It should provide excel sheet of all measurements

It should automatically detect and eliminate bad breath

Nasal, Bronchial and Alveolar FENO

Spirometry test FVC, SVC, MVV (Pre and post)

It should have 3 modes of operation for FENO measurement: Nasal, Bronchial and Alveolar
System should have 4 flows (50-100-150 350 ml/dry) (Alveolar measurement)

FENO Measurement accuracy: 3%

FENO Measurement Range: 0-5000ppb

Exhalation Time: Special Pediatric mode 6-8sec

ExhalationFlow: 4 different flow range 50-100-150 350 ml/dry

It should have facility of Measurement of Nasal FeNo Using Nasal Catheter (bung)

It should measure During apnea or in continuous expiration during 8 (Children) secs

It should be useful for screening ciliary primary dyskary.


It should have facility of Analysis of nasal sample under controlled respiration 45-60 secs

It should have Simple control of flow and expiratory pressure

It should have features to integrate into Lung Volume, Bodyplethysmograph in future

It should have Automated quality control for gas analysis without routine use of reference gas cylinder

Spirometry should be included in the FeNO module


23/12/24
Dr. Abhishek Madhura / डॉ. अभिषेक मधुरा
Associate Professor / सहयोगी प्राध्यापक
Dept. of Pediatrics / बालरोग विभाग

AIIMS, Nagpur / एम्स, नागपूर

Parameters to be measured: **NO**, Maximal value of exhaled NO in ppb, **VE**, Average expired flow (L/min)
VNO, Average of expired NO flow (ml/min), **Pres.** Expiratory pressure averaged (cmH₂O)

It should have Screen display of test (Minimum 3)
It should have facility for Averaging of test results
It should be ISO and European CE/ US FDA

It should be supplied with Software with following features:


- It should have SQL database and electronic storage function
- It should be upgradable to Exercise protocols fully user configurable for treadmill and ergometer
- It should have result analysis software
- It should have Trends report (historic function)
- It should have Interpretation facility
- It should have Report designer software
- It should have Predicted value editor
- It should have User defined calculated parameter
- It should have facility to select unit for the measured parameter
- It should have flow volume loop and FVC curve
- It should have graphical representation of FENO measurement
- It should have meter and gauge display on screen while performing FENO test
- It should have facility to upgrade into bronchial challenge (Bronchoprovocation) test with integrated dosimeter in future

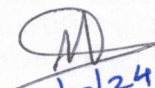
It should be supplied with suitable I5 Dell/HP/Essex 8 gb Ram 1 TB HDD PC system with color Inkjet Printer

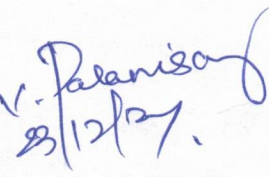
It should be supplied with consumables for minimum 100 patients

Optional Future upgrade

- DLCO – NO with helium trace gas (Dm and Vc)
- Lung Volume RV, TLC, FRC
- Bodyplethysmography
- Quote separately for required Consumables


डॉ. मीनाक्षी गिरिश / Dr. Meenakshi Girish
आचार्य / Professor
बालरोग विभाग / Department of Pediatrics
एम्स, नागपुर / AIIMS, Nagpur


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8/12/24
Dr. Palanisamy V.
MBBS, MD (PULM), DM (PULM)
ASST. PROF. DEPT OF PUL. MED.
AIIMS, NAGPUR



Medisoft SA
a MGC Diagnostics subsidiary

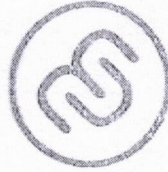
PAE de Sorinnes 1
Route de la Voie Cuivrée
5503 DINANT - BELGIUM

PROPRIETARY CERTIFICATE

This is to certify that New Asthma COMBO System is proprietary product of Medisoft Belgium.

We, M/s. Medisoft, claim that no other company in the world manufacture Asthma Management Combo System with features and combination 3 Mode FENO (Nasal, Bronchial, Alveolar) with 0-5000ppb range and 3% accuracy & Force Oscillometry system with EFL (Expiratory Flow Limitation) and single and multiple frequency operation and Spirometry together at single station and combine report. Hence, it is proprietary product of Medisoft Belgium.

Yours Faithfully



medisoft®
CARDIO-RESPIRATORY INSTRUMENTATION

Medisoft Group

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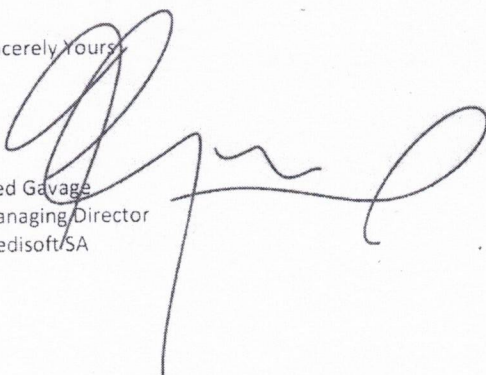
12/02/2025

To,
The Director
AIIMS, Nagpur
Maharashtra

AUTHORIZATION LETTER

We hereby state that M/s Biotronics Equipment Pvt. Ltd. & having its registered office at 504, Reena Complex, Opp. Nathani Steel, Vidyavihar (W), Mumbai 400086 & Head office at 401/301 Bangashree Tower, Daji Ramchandra Road, Opp. Pawar Industrial Estate, Charai Thane (west) 400 601 is our distributors partner in India. They are authorized to sale, market, distribute our products & provide after sales service.

Sincerely Yours,


Fred Gavage
Managing Director
Medisoft SA



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