



No. 1(9)/SAI/ES/SSE/2017-18/IFB-146

Corrigendum - 02

Sub: Invitation for Bid No. 1(9)/SAI/ES/SSE/2017-18/IFB-146 for Procurement of Sports Science Equipment for LNCPE Thiruvananthapuram.


The following amendments in the specification published along with Bid Document of Section – VI “Technical Specifications” are hereby authorised in the Tender and Bid Document of the subject IFB -146:-

Item No.	Description of Item/Article	Existing	Amended
1. ANTHROPOMETRY			
(i)	Body Composition Analyzer Tactile Model using Bio-Electric Impedance Method	The Equipment should be able to assess. <ul style="list-style-type: none">• Weight: upto 200kg.• Height: upto 200 cm.• Age range: 5 and above.• Parameters: BMI; Body Fat percentage; Skeletal Lean Mass; BMR; TEE; Body Type and Segmental measurement.• CE Certified / FDA Approved	The Equipment should be able to assess. <ul style="list-style-type: none">• Weight: upto 200kg.• Height: upto 200 cm.• Age range: 5 and above.• Parameters: BMI; Body Fat percentage; Skeletal Lean Mass; BMR; TEE; Body Type and Segmental measurement.• CE Certified / FDA Approved
2. PHYSIOLOGY			
(i)	Telemetric Metabolic Gas Analyzer(along with compatible Treadmill)	<ul style="list-style-type: none">• Technique : Breath By Breath Analysis• Sensor/Transducer: Infrared/Galvanic Fuel Cell/ Electrochemical.• Weight : Less Than 1 Kg• Transmitter Range: up to 1000m• Battery : Rechargeable with autonomy of min 5 hours• Accuracy: 0.02% O₂ Analyzer, 0.02 % CO₂ Analyzer• Pneumatech/DVT Flow-meter: Bi-directional digital Turbine, Flow range: 0-20KL/s/• Ventilation range:0-300L/m/Accuracy +2%• The system should be able to real-time testing/data analysis on laptop with latest configuration with serial port through telemetry and direct connection. The system should also be able to collect data in	No Change in specifications but the description of the items is read as “Telemetric Metabolic Gas Analyzer”

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		<p>the Holter mode to be downloaded later.</p> <ul style="list-style-type: none"> • The system should be able to control treadmill or cycle ergometer with USB/RS232 compatibility. • Should have standard-accessories • Training on equipment at the site of installation 	
(iii)	Treadmill compatible to Telemetric Metabolic Gas Analyser	<p>The equipment should have</p> <ul style="list-style-type: none"> • Machine with user Terminal (Display Key Board) stand alone and connectivity to PC • Applications: Running for sports, Sports Medicine Cardiology, Stress Tests and Medicine • Speed Range : 0- 22Km / hr • Resolution: 0.1km/h; 0.5% tolerance • Elevation: Max +25% with electrical engine breaks • Power transmission: Poly-V belt drive (with quiet operation) • Usable platform: L – upto 150 cm; W – upto 50 cm • Belt surface with non slippery material with maximum permissible load • Option Graphics: Compatible PC software, paragraphs, Export and import in ACSII format • Automatic load control • Automatic speed control • Safety Systems • Emergency off switch (mains cut) • Potential equalization • Transformer for potential isolation from the mains • Display – A convenient LCD display • Heart rate monitoring – Wireless, 1 channel receiver ECG accurate, measuring and display beat to beat. • Heart rate control – Automatic control of speed and elevation according to programmed target heart rate (cardio-mode) • Interface to a PC- Via RS232. • European CE / US FDA certified 	<p>No change in the specifications, the tread mill should be compatible with Telemetric Metabolic Gas Analyzer.</p>
(iv)	Desktop Lactate Analyzer	<p>Test: Lactate in whole blood</p> <ul style="list-style-type: none"> • Sample size: approximate 5 micromole • Measuring Range:.4-23.5 micromole • Measuring Time: 15-60 sec (maximum) • Portable to use in the field. • Running to be included for 5 years • US FDA approved/European CE certified 	<ul style="list-style-type: none"> • Lab model – Enzymatic oxygen rate. amperometric oxygen electrode/membrane type with LCD display, printer, connectivity to PC. The firm should be able to provide consumables as per requirement. • Consumables for 3 years for 2000 samples, rate for which may be quoted at the time for response to tender. • European CE /US FDA approved.

2. All other entries in the subject IFB will remain unaltered.


 (Sanjeev Sharma)
 Director (ES)
 For and on behalf of DG, SAI