



**ALL INDIA INSTITUTE OF AYURVEDA (AIIA)**  
( आयुष मंत्रालय, भारत सरकार के अंतर्गत स्वायत्त संस्थान )  
(An Autonomous Organization under the Ministry of AYUSH, Govt. of India)

F.No. G-19004/10/2/AIIA-2020/04

Dated 17/02/2021

**ADDENDUM/CORRIGENDUM**

**Tender Ref No** Tender No. G-19004/10/2/AIIA-2020/Exercise Physiology system dated: 10/02/2021

**Title:** Tender Documents for Supply Installation, Testing and Commissioning of Exercise Physiology system. The below Mentioned Amendments has been issued in above mentioned Tender Documents.

S No	Page No Clause No	Current Clause	Revised Clause.
1	Tender Document page No 20-21	Point No 1.1 No. of Channel: 16 it should be able to use for human physiology and effect of exercise	No. of Channel: 8 or more it should be able to use for human physiology and effect of exercise
2	Tender Document page No 20-21	Point No 1.6 Transducer along with amplifiers for recording and analysis Pulse, Non- invasive Cardiac Output, Respiration, Biopotentials ECG, EMG, EEG, Hand Dynamometer, Heart Sound, Reaction time, Tendon Reflex	Transducer along with amplifiers for recording and analysis Pulse, Respiration, Biopotentials ECG, EMG, EEG, Hand Dynamometer, Heart Sound, Reaction time, Tendon Reflex and twin axis goniometer for knee and elbow.
3	Tender Document page No 20-21	Point No 1.7 Wireless (transmitter/recorder) device with transmit range up to 100 meters, water proof, data logging option for recording of ECG, R-R interval, Heart Rate, Skin Temp., GSR, Respiration Rate, Oxygen Saturation (SPO2) and accelerometer activity	Wireless (transmitter/recorder) device with transmit range upto 100 meters or more, water proof, data logging option for recording of ECG, R-R interval, Heart Rate, Skin Temp., GSR, Respiration Rate, Oxygen Saturation (SPO2) and accelerometer activity. Both The Wired and the wireless component should work together and independent as per the user requirement.
4	Tender Document page No 20-21	Point No 1.8. Built in analog output amplifier with software- controlled stimulator or pulse generation, filters, trigger, gain and sampling rate.	Both the wired and the wireless component should work together and independent as per the user requirement. Built in analog output amplifier with software- controlled stimulator or pulse generation, filters, trigger, gain and sampling rate.
5	Tender Document page No 20-21	Point No 1.9 Input voltage range of at least +20m V to+ 1 0V, input & output impedance 1.0 Mn& 80-1202, current leak 6-10A	Input voltage range of at least $\pm 200\text{mv}$ to $\pm 10\text{V}$ .
6	Tender Document page No 20-21	Point No 1.13 Minute volume, REP respiratory exchange ratio, ECG, HRV, Basal Metabolic Rate, Resting Metabolic Rate, Respiratory Exchange Ratio, VO2, Oxygen consumption, VO2 max, VCO2, Carbon dioxide production EE, REE, VE expired, (VENO2), (VENCO2)etc.	VO2 oxygen consumption, VCO2 carbon dioxide production, VE Expired minute volume, RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE / VO2), (VE / VCO2) etc. and should generates a number of Metabolic graphs.
7	Tender Document page No 20-21	Point No 1.14 Have oxygen sensor with minimum range of 5-100% oxygen and resolution of at	Gas Analyzer should have an Oxygen sensor with minimum range of 5-100% oxygen and resolution of at least ,0.02% & the carbon dioxide sensor

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		least 0.02%, and the carbon dioxide sensor with minimum range 0-10% of carbon dioxide resolution of at least 0.2%.	with minimum range 0-10% of carbon dioxide and resolution of at least 0.1 % and variable flow range of 35-185 ml/min for best performance and results
8	Tender Document page No 20-21	Point No 1.16 Should include a built-in electrode impedance checker, report generator or journal for the citation of student lab report.	Software should generate auto generated reports with graphs and for the citation of journal of subject lab report.
9	Tender Document page No 20-21	Point No 2.6 It should have various automatic analysis features for ECG, HRV, Blood Pressure, metabolic studies, cardiac output,, cardio complex boundaries, spike histogram, video capture, epoch analysis, multi-epoch HRV and RSA spectral, classification of heart beats, focus area analysis, EDA activity analysis etc	It should have automatic analysis features for ECG, HRV (time domain and frequency domain, blood Pressure, metabolic studies, Spike analysis, Peak analysis, video capture, cardiac axis analysis, cardiac vectogram, etc.
10	Tender Document page No 20-21	Point No 3.1 It should have various automatic analysis features for ECG, HRV, Blood Pressure, metabolic studies, cardiac output,, cardio complex boundaries, spike histogram, video capture, epoch analysis, multi-epoch HRV and RSA spectral, classification of heart beats, focus area analysis, EDA activity analysis etc.	Pulse, blood pressure, respiration, biopotentials- ECG, EMG, EEG, hand dynamometer, heart sound, Gas Analysis Module and other accessories for the measurement of the above parameters.
11	Tender Document page No 20-21		<b>Compatible Bicycle Ergometer with Brake system microprocessor-controlled eddy current brake</b> <ul style="list-style-type: none"><li>• Load up-to 1000Watt, speed independent, Speed range 30 - 100 rpm, Patient weight (max.) 160 kg</li><li>• The control unit must have Display / patient display load, rpm, speed, time, blood pressure, heart rate (LCD) / rpm (LED), Key-board Graphic display (load, heart rate)</li><li>• Incremental protocols, 10 User programmable, Load adjustment manual, Integrated Stresstest programs - remote control through PC-ECG and ECG recorders documentation Should have following options for upgrade.<ul style="list-style-type: none"><li>• Automatic blood pressure measurement</li><li>• Oxygen saturation measurement</li><li>• Pediatric ergometry / diagnostic tests for athletes</li><li>• Seamlessly Interfaces via COM</li><li>• ISO/CE/BIS quality certificates to be provided</li></ul></li></ul>

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*[Handwritten signature]*

*N.K. Bhargava*

*30/11/2018*



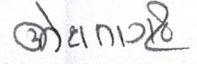


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Therefore, all the concerned are hereby informed that tender Tender No. G-19004/10/2/AIIA-2020/Exercise Physiology having ID. **2021\_AIIA\_588859\_1** floated on 10/02/2021 for the procurement of **Exercise Physiology system** are given the above amendments. Due to amendments in Specifications mentioned in tender document.

Hence date of submission & opening bid is now 23/02/2021 at 1500 & 1530 Respectively this is in place of date and time mentioned in Tender document dated 10/02/2021.

Consequently, above mentioned corrigendum/addendums become the integral part of the tender document, rest of the contents remains same.

  
(Joint Director)

  
N.K. Bhojani

