

Addendum 01

The Pre – Bid Meeting was held on **28/11/2019** at **4.00 p.m.** in the **Board Room**, NITK Surathkal for the purchase of **“Gait Analysis Equipment”** (**Tender Notification No : NITK/CRF/GAE/04 Dated: 04/11/2019**). The following queries were discussed & the Reply/Clarification given to the prospective bidders.

Queries & Reply/Clarification

Sl. No.	NITK Tender Specifications	Questions asked by the vendor	Reply/Clarification	Changes to the Tender
1.	Motion capture camera: 12 Nos. (2.2 Megapixel camera, 6-12 mm varifocal lens, max. frame rate of 330FPS)	<u>Suggested change:</u> Motion capture camera: 12 Nos. (minimum 2 Megapixel camera, minimum frame rate of 300 FPS)	Suggestion accepted	Committee decided to modify it as “ Motion capture camera: Quantity = 12 (MP: 2 or More, Frame rate: 300 FPS or more)”
2.	Camera cable: 14 Nos. (30m length)	<u>Suggested change:</u> Camera cable: 14 Nos. (sufficient length)	Suggestion accepted	Committee decided to modify it as “ Suitable cabling and ethernet switch: Suitable camera cables, wires, BNC connectors, etc. of sufficient number/length/size should be provided for connectivity”.
3.	Video Camera to obtain 3D synchronized video of biomechanical human body: 2 Nos. (1980 x 1080 progressive scan,	<u>Suggested change:</u> Video Camera to obtain 3D synchronized video of biomechanical human	Suggestion accepted	Committee decided to modify it as “ Video Camera: Quantity = 2

	max frame rate 60 Hz, 6-12 mm varifocal lens)	body: 2 Nos. (2 Megapixel, minimum frame rate 60 Hz)		(To obtain 3D synchronized video of biomechanical human body: (MP: 2 or More), Frame rate: Minimum 60 Hz)".
4.	Active calibration Wand	<u>Suggested change:</u> Necessary calibration apparatus	Suggestion accepted	Necessary Calibration Apparatus
5.	Basic Life Science Accessory Kit	<u>Suggested change:</u> Accessory and marker kit for biomechanics	Suggestion accepted	Committee decided to modify it as "Accessory kit: Quantity = 1 (to include Markers, Adhesive markers on skin, measuring tape, scissors, and others)"
6.	<ul style="list-style-type: none"> ➤ Tripods (Large): 12 Nos. (0.44 m – 2.67 m) ➤ Tripods (Small): 2 Nos. (0.56m – 1.65m) ➤ Ball Head (14 Nos.), and Micro ball head (2Nos.) 	<u>Suggested changes:</u> 1. Tripods (Small): 2 Nos. (1.65m) 2. Ball Head (14 Nos.) 3. Ball Head (14 Nos.)	Suggestion accepted	Committee decided to modify it as "Suitable Tripods and Ball heads: Quantity = 14 pairs (Small or large as required)".
7.	Super Clamp (To attach cameras to existing wall): 12 Nos.	<u>Suggested change:</u> Super Clamp (To attach cameras to existing rail): 12 Nos.	Suggestion accepted	Committee decided to modify it as "Super clamp Quantity = 14 (To attach cameras to rails)".
8.	Force Plate with Signal Conditioner: 2 Nos. (With software, 9m Force Platform to Amplifier cable)	<u>Suggested change:</u> Force Plate: 2 Nos. (40x60 cm, with software, minimum 9m Force Platform to Amplifier cable)	Suggestion accepted	Committee decided to modify it as "Force Plates: Quantity = 2 (Minimum 40 cm X 60 cm dimension) For gait, balance, and sport analysis with suitable force platform to amplifier cables".

9.	<ul style="list-style-type: none"> ➤ Analysis Software for Force Plates ➤ Software Package to export the data that can be read in any computer ➤ Software Package for Cameras (for calibration, data capture, post processing, and exporting to 3rd party software) 	<p><u>Suggested changes:</u></p> <ol style="list-style-type: none"> 1. Analysis Software for Force Plates 2. Dedicated automated data capture, analysis and reporting software modules for: <ul style="list-style-type: none"> • Gait Analysis • Running Analysis (on a treadmill) • General Functional Assessment (Drop Jump, Squat Jump, single leg jumping etc.) 3. Software package for biomechanical data analysis and automated reporting with export options in Word and HTML format. 4. Software Package for Cameras (for calibration, data capture, post processing, and exporting data to 3rd party software). 	Suggestion accepted	<p>Committee decided to modify it as</p> <p>Software Requirements: Quantity = 1</p> <p>(</p> <ol style="list-style-type: none"> 1. For calibration, data capture, post-processing, and exporting to 3rd party software (LabView and MATLAB) 2. For biomechanical data analysis and automated reporting with export options in Word and HTML format 3. Analysis Software for Force Plates 4. For dedicated automated data capture, analysis and reporting of gait analysis, running analysis (on a treadmill), general functional assessment (single leg jumping, drop jumping, squat jumping - etc) <p>)</p>
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10.	Video PC (Intel Xeon Processor, 16 GB (4 x 4GB) RAM, 2 X 2TB ATA, 8 X slimline DVD, 2GB NVIDIA, Mouse, Keyboard, Windows) Large PC Monitor (23")	Suggested to recheck the compatibility of the specifications with the computer provided by their firm.	Suggestion accepted	Committee decided to modify it as “Desktop computer: Quantity = 1 (Intel Xeon Processor, minimum 16 GB RAM, minimum 2TB HDD, minimum 250 GB SSD, 8 X slimline DVD, minimum 2GB NVIDIA Graphic Card, Mouse, Keyboard, Windows 10, MS Office 19, 27” Flat panel LED Display, UPS of 1.5 kVA or above)”.
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Following points to be included in the Addendum :

- Under Tender Document, Annexure – H, Detailed Technical Specification, Page No. 30/31, Sl. No. 1,

“Treadmill: 1 No. (4 HP Drive Motor, Speed range of 0.8 – 18 Kmph, running area of 140 x 46 cm)” is replaced as:

“Treadmill for rehabilitation: Quantity = 1,

(Speed range: 0.1 – 11 km/h or better, Small adjustment steps :0.2 km/h or below, walking surface area: more than 45 cm X 145cm, positive elevation: > 24% e, negative elevation: more than 9% , handrails, Emergency Stop Button, Reverse Walking, Entrance plate, maximum allowed user weight: >200kg)”.

- Under Tender Document, Annexure – H, Detailed Technical Specification, Page No. 30/31, Under Additional Mandatory Requirements, Clause No: 3, may be read as:

“Any breakdown/service issue is to be sorted out within 96 hours. In case of delay beyond 96 hours, the warranty period will be proportionally extended”

- Under tender document, Section 2: Condition of Contract, Pg. No. 13 of 32, clause No. 2 is replaced as:

“Incase of Import, CIP rate should be quoted. All components of expenditure to arrive by Air at Bangalore need to be explicitly specified. If ship by sea, the nearest seaport Mangaluru/Chennai. However, during financial comparison 6% additional charges will be levied to cover custom clearance and local transport”

It is decided to extend the Bid submission date by following dates

Last date for request tender document	: 03/01/2020, before 3.00 p. m.
Last date for Bid submission	: 03/01/2020 before 4.00 p. m.
Bid opening date(tentative)	: 06/01/2020 @ 3.00 p.m.

Sd/-
Buyer
Dr. Somasekhara Rao Todeti

Sd/-
Chairman
Central Research Facility
NITK, Surathkal