



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091

Phone No (033) 40340307/320
E mail: procurement@wbmsc.gov.in

**Supply and Commissioning of Medical equipments for setting up of Sports Medicine unit at
IPGME&R and SSKM Hospital of the Govt. of West Bengal**
[3rd call of bid reference no. WBMSCL/NIT-383/2021, (Schedule- IV & IX); Dated-25.11.2021]

Bid Reference No.: WBMSCL/NIT-274/2022

Dated-28.06.2022

Amendment-I

Revised Technical Specification

Technical Specifications of Speed Jump and Turn Analyser Machine	
1	FUNCTIONAL EVALUATION OF GAIT KINEMATICS INVOLVED IN THE SPORT MEDICINE INCLUDING SPEED, JUMP, TURN ANALYSIS ALONG WITH TRI-AXIAL FORCE PLATES.
2	Functional Assessment of athletes aiming at monitoring and improving their performances
3	User friendly device to generate the report automatically and supply immediate comparison with normal range results
4	System should have various types of test for gait analysis viz walking test timed up and turning test
5	System should have various types of test for sports analysis viz. Squat Jump Squat with weight bar, Counter Movement jump Repeated CMJ, CMJ with arms thrust and Drop Jump
6	System should display following spatiotemporal parameters: speed, cadence, step, stride length, gait cycle duration, stance duration, swing duration, single and double support phase duration.
7	System should display following Time of flight, Jump height, Maximum concentric strength Maximum eccentric strength, Minimum concentric power Maximum eccentric power, Concentric work, Eccentric work. Elasticity index, Bosco index, Coordination index

8	Systems use an inertial sensor connected to a computer via Bluetooth to determine spatio temporal parameter pelvic rotations and functional evaluation of kinematics involved in the sport movement
9	System to be used around the waist by using an ergonomically designed belt System should have a analysis of speed, acceleration pattern and pelvic angles
10	System should display the following pelvic griddle angle parameters vi anterior posterior rotations, ante-retroversion, lateral tilt
11	The test result displayed in a complete analysis made of spatio-temporal parameters stride after stride, comparison between pre and post curve was patterns
12	Should be supplied with complete software for the analysis of above spatio-temporal parameters, pelvic kinematics, functional evaluation of kinematics involved in the sport medicine
13	Software should include normative data for all the acquired parameters.
14	Other specification includes
i	Sensor Typology: Tri axial accelerometer, Tri axial magnetometer, Tri-axial gyroscope
ii	Connectivity Bluetooth Frequency at least upto 175 Hz
iii	Working real time
iv	Battery rechargeable via USB
v	System should have international safety standards
vi	System should have minimum 2 motion analysis camera (min. 100 frames / sec, high resolution) with image analysis for position coordinate to measure jump height and video recording.
vii	Supplied with laptop with of suitable configuration and colour printer.
viii	The System should be supplied with tri-axial force plates for speed jump, turn and run assessment. The total area of force plates will be (2 x 120 x 80) cm ² = 19200 cm ² . For example, 8 force plates each of size 60 cm X 40 cm.
15	Lastly physical demonstration is required for technical evaluation
16	Should have international safety standards USFDA /European CE (4 digit European notified no).