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Tender Ref No :	1(PEQ)/13/20-21/PUR				
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सीएसआइआर - उत्तर पूर्व विज्ञानतथा प्रौद्योगिकी संस्थान, जोरहाट, असम
CSIR-NORTH EAST INSTITUTE OF SCIENCE & TECHNOLOGY, JORHAT, ASSAM

AMENDMENT

This is to inform that in the tender for “Supply and Installation of Amino Acid Analyzer” having Tender ID “2020_CSIR_64724_1”, some points have been revised and the same may be read as under:

Revised Specifications for Supply and Installation of Amino Acid Analyzer

Amino Acid Analyzer	
System	Automated Amino Acid Analysis system based on ion exchange chromatography with post-column derivatization of samples using ninhydrin reagent
Application	System must be suitable for Food, Feedstuff and Physiological samples
Solvent Delivery System	
Delivery system	Dual high pressure, low volume pump for supply buffers and reagents. Eluent system with variable buffer system and reagent with regeneration solution stored on the instrument under nitrogen pressure
Flow rate	Programmable 50 ml/hr or higher for ninhydrin pump Programmable 130 ml/hr or higher for buffer solution pump
Reaction module	
Detection wavelength	Dual channel detection at 440 nm and 570 nm
Temperature	Column temperature: 90°C or higher (Programmable) Reaction coil temperature: 140°C or higher (Programmable)
Sensitivity	≤ 15 pmoles
Reproducibility Area	1.2% RSD or better
Retention time	0.3% RSD or better
Analytical Column	High pressure reusable column packed with peltier heating/cooling system
Software	Instrument control software with GUI (Graphical User Interface) for easy Operation. Latest version of Data Handling Software to complete control of amino acid analyser with powerful data acquisition and processing of results. Equipment must be supplied branded computer (Operating system Windows 10 Pro 64-bit or better, RAM: 8 GB or higher, Monitor Size: 24 Inch or higher, Processor: Intel® Core™ i7 8th generation and above with Intel® HD Graphics or better, Graphics Card: 2 GB and above) with preconfigured all software's
Safety System	Automatic shut-down and reaction coil flushing during <ul style="list-style-type: none"> ● Photometer lamp failure.

	<ul style="list-style-type: none"> • Incorrect ninhydrin / buffer / coil / nitrogen pressures. • Incorrect coil and column temperatures power failure.
Power supply	220 - 240V/50Hz
Autosampler	
Sampling system	Air cooled autosampler with 3 injection modes (full loop, partial loop and micro). Fully computer controlled
Sample injection volume	100 µL or higher
Reproducibility	RSD 1.0% or better for each injection modes
Number of sample tray positions	With cooling 80 or more
Temperature	Ambient to 4°C (peltier cooling)
Power supply	220 - 240V/50Hz
Other specifications	
<ul style="list-style-type: none"> • System should have interchangeable sample trays allow samples to be prepared in advance and stored refrigerated. • The auto sampler should have programmable wash program with selectable volumes facility to flush entire injection system to avoid cross contamination of the sample. • Solvent delivery system should have programmable mixing cycle of buffer solution and flushing procedure. • Solvent delivery system must be equipped to alarm the pressure ranges beyond permissible limits. • The reaction module should have programmable signal offset, automatic valve for coil flushing, actual system pressure display and safety features in control high pressure, leakages of reactor and column. • All necessary cables, fittings, joints, clamps, syringes, columns for hydrolysate samples (1 No.) and physiological program (1 No.), sample racks, buffers, reagent should be supplied during the installation and commission of the equipment. • Installation, demonstration and training should be provided by Trained Technicians/Engineers and ensure it is operating correctly and within specifications. • Two (2) numbers of nitrogen cylinders with regulator, and connector should be supplied with the system. • Suitable UPS at least 2 hours backup capacity and color laser jet printer should be supplied with the system for operation during installation. 	
Warranty	
Minimum 03 (three) years warranty from the date of installation.	
Post warranty, AMC rates	
Post warranty, AMC rates (at least for 5 years after warranty) with 2 (two) preventive and 1 (one) breakdown visit for each year should be mentioned in the offer but it will not be taken for price comparison and decision for AMC will be taken afterwards.	
Availability of spares & Consumables	
All the necessary spare parts should be available upto 10 years.	
All other specifications, terms and conditions will remain same.	