

Special Project 292-2-2-15-2507 - Lab Equipments

03 . Direct Mercury Analyzer- Bench-top

Animal Nutrition Division, VRI

Instrument Parameter	Specification	Bidder's Response		
		Yes	No	If no bidder response
Make	Please specify			
Model	Please specify			
Country of origin (design and Manufacture)	Please specify			
Country of Manufacture)	Please specify			
Warranty period	Two years comprehensive			
Manufacture authorization	Manufacture authorization letter with supplier's contact details should be submitted			
List of users in Sri Lanka	Shall be provided with the bidding document (for the last 5 years period)			
After sale service	Shall be able to provide for minimum 10 years. A proof letter should be provided			
Method & Principle	Methods: Design shall be able to meet with USEPA/ASTM/Codex Alimentarius test methods			
	Principle: Thermal Decomposition & Atomic Absorption Spectro-photometry			
	Type :Bench Top			
	The system must be suitable for direct mercury analysis in any sample without sample preparation (without digestion)			
Sample type	Solid, Liquid and Semi-solid (shall be able to analyze all three types)			
Auto sampler	More than 35 positions			
	Facility should be available for continuous sampling without stopping the machine			
Sample Boats	Boat capacity for Solid/ Semi-Solid; Maximum 1.5g			
	Boat capacity for Liquid: Maximum 1.5mL			
	Boat Type: metal (nickel) and quartz			
	No of Sample boats: Shall be Equal to the no. of positions			
Light Source	Lamp: Low pressure mercury lamp, Wavelength:253.65nm			

Measurement Range	Minimum Detection Limit: shall be ≤ 0.001 ng Hg			
	Typical Precision : $\leq 1\%$ at 5ng Hg			
	Maximum Measurement (Hg): shall be specified against with the minimum weight			
Typical Analysis time	Approx. 5minutes or better			
Calibration	Standard solution of Certified Reference Material (CRM) for both lower and higher Range shall be provided with the instrument			
	1000ppm Mercury standard solution 100ml shall be provided with the instrument			
Carrier Gas	Oxygen/ Air Compressor should be provided			
Data Processing	System controlled via a dedicated PC A latest PC should be provided with bellow accessories.			
Software	Software Installation CD/ USB shall be provided			
Printer	Laser printer compatible to the PC provided			
Power supply and surge protection	AC 230V,50Hz Two KVA online UPS should be provided			
Device control	Temperature, Decomposition Time, Blank, Standard, Calibration curve shall be adjustable as the requirement			
Data Reporting	Shall be able to print Analysis condition, Calibration curve, Measured and Statistical data, Peak Profile			
Application notes	Application notes should be provided for food, feed / Waters / Environment			
Mercury collector tube	Shall be supplied with the main instrument			
Accessories- (Please quote Separately)	Extra Mercury collector tube- 01unit			
	Extra Sample heating Tube- 01unit			
	Extra Join set- 01unit			
	Extra sample boats-50 sample boats-Quarts or Nickel			

Other Requirements	Original Specification sheet should be provided with highlighted points. Operation Manual Language Should be English Availability of spare parts- Up to10 years after installation Shall be provided by the Manufacturer Installation, commission, on-site training for smooth operation- Shall be provided by the supplier			
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