

APPENDIX A1
MANDATORY TECHNICAL SPECIFICATIONS MATRIX

Item	Description	Status	YES	NO	Bidder Response	Specifications are Cross Referenced with my technical data and/or brochure:
1	Part 1: GENERAL SPECIFICATIONS					
1.1	Existing Technology: The autoclave being offered must be new and the current production model. The autoclave must include any or all standard equipment normally included (either implied or stated) on the model quoted. The autoclave being offered must be the most recent model available and have been in the market place for a minimum of three (3) years.	M				
1.2	Authorized Distributor: Bidder / supplier must be an authorized distributor of the autoclave they are offering. All systems and components must be in accordance with common industry practice such as Canadian Standards Associate (CSA) and International Standards Organization (ISO) standards and test methods. Systems and components must be factory supplied and warranted by the Original Equipment manufacturer (OEM) as opposed to after-market supplied and warranted.	M				
2	Part 2: TECHNICAL SPECIFICATIONS					
2.1	CHAMBER:					
2.1.1	Size: opening and internal dimensions of the chamber to be equal to or greater than: 20 inches wide, 20 inches high, 36 inches deep.	M				
2.1.2	Construction : Stainless Steel	M				
2.1.3	Racks / Shelves: - Chamber to be equipped with adjustable shelf supports - Provide two shelves - Rack and shelves are to be easily removable for cleaning.	M				
2.2	JACKET AND INTERNAL BAFFLE:					
2.2.1	Constructed of Stainless Steel	M				
2.2.2	Internal steam baffle required to prevent wetting of the load	M				
2.3	CABINET:					
2.3.1	Side panels to be removable	M				
2.3.2	Front panel to be either hinged or removable	M				
2.3.3	All panels to be Stainless Steel construction	M				
2.4	DOOR AND SEAL:					
2.4.1	Vertically sliding door with manual emergency backup and reversing feature if any obstruction is encountered.	M				

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2.4.2	Door to come with safety switch to prevent steam from entering the chamber until the door is closed and sealed	M				
2.4.3	Door Seal - have the ability to manually retract the seal in the event of an emergency or to allow access to chamber due to a systems failure - be recessed in the door	M				
2.4.4	Door interlock system	M				
2.5	SITE UTILITIES AVAILABLE: The following services are available for use AND if required by the unit, supplier responsible for supplying or making provisions for any requirements other than what is identified.					
2.5.1	COMPRESSED AIR: AAFC site supplied 275 Kpa (40 PSI) house compressed air	I				
2.5.2	DRAIN: temperature of the discharge from the unit must be controlled so that it will not exceed 60 degrees Centigrade (140 degrees F). Drainage from the unit not to exceed or controlled to meet the capacity of a standard 100 mm (4 inch) floor drain.	I				
2.5.3	WATER SUPPLY: must be able to operate on 415 Kpa (60 PSI) water cold water supply with operating temperature range of 10 to 20 degrees Centigrade. Hot water supply available for water makeup to the steam generator.	I				
2.5.5	ELECTRICAL SUPPLY: 208 volt / 3 phase. Power limitation restricted to 90 amps.	M				
2.6	STEAM GENERATOR with the following specifications:					
2.6.1	Electric heaters - 208 volt 3 phase configuration	M				
2.6.2	Operation / controls of the steam generator to be integrated with main controller so as to be automatically turned on and off with the controls for autoclave.	M				
2.6.3	Equipped with valve(s) in place that will allow the generator to be isolated from the autoclave.	M				
2.6.4	Provide adjustable pressure control and over-pressure cut-off	M				

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2.6.5	Automatic fill valve, visible water level gauge	M				
2.6.6	Manual and automatic blow down functions (see section on Utilities Section on discharge to drain temperature limitations)	M				
2.6.7	High water alarm	M				
2.6.8	Constructed of stainless steel	M				
2.8	<u>CONTROL PACKAGE:</u>					
2.8.1	Provide a minimum of pre-programmed operator selectable cycles - 2 x liquid (not to be used to sterilize liquids for human contact) - 2 x unwrapped - 2 x wrapped / dry - 4 additional user programmable cycles, any combination of liquid, unwrapped or wrapped, to be determined at time of ordering - ability for owner to change cycle length and operating temperature for each programmable cycle	M				
2.8.2	Programmable to set individual automatic unit start up and shut down times for each day of the week. Any cycle that is started and will run past the programmed shut down time will be completed before the unit will shut down.	M				
2.8.3	Cycle complete light, display message and momentary tone	M				
2.8.4	Controls to be microprocessor based - interface to allow operator to check cycle status and conditions - show jacket and chamber pressures - show fault and alarms messages - allow for interface at different access levels for operator and servicing - have memory back up for programmable cycles	M				
2.8.5	Built in strip printer with a mechanism to catch the strip paper - following each cycle a print out is to be supplied indicating the minimum of the time, date, cycle selection, length of cycle, pressure attained, any alarms or faults - print out any alarms or faults during a cycle - see Spare Parts Section (3.5) for provision of additional paper supplied	M				

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2.8.6	Operator interface capable of picking cycles, changing cycle parameters, cycle lengths and/or temperatures	M				
2.8.7	Separate pressure gauges mounted for easy viewing by operator indicating jacket and chamber pressure on fron of unit.	M				
2.8.8	Controls must have automatic control of the steam generator operations.	M				
3	Part 3: INSTALLATION, WARRANTY, TRAINING:					
3.1	MAINTENANCE AND OPERATOR MANUALS: - Supply two complete hard copy sets and one Electronic copy via CD, DVD or memory device (memory stick) - Each hard copy set to be mounted in a separate "D" ring binder	M				
3.2	CERTIFICATIONS: The following documentation to be supplied in duplicate with additional copies included as part of the maintenance and Operating Manuals - CSA certification or equivalent for installation in Canada - Boiler & Pressure Vessel certification, ASME code stamping, certifying that unit can be operated in the Province of Manitoba, Canada - pressure vessel CRN (Canadian Registration Number) - supplier must have ISO certification in a division related to autoclave manufacturing	M				
3.3	TRAINING: On site training to be completed for 2 to 3 people after unit has been commissioned.	M				
3.4	INSTALLATION: -To be completed in summer of 2015. - Supplier is responsible for uncrating, locating to the final location coordinated with owner, installation and commissioning. -Owner to move the crated unit to close proximity of final position at the Morden Research Station located at 101, Route 100, Morden, Manitoba, Canada. -It is the supplier's responsibility to check, identify and find solutions to any limitations of the on-site conditions preventing or hindering the movement, placement or installation of the unit.	M				
3.5	SPARE PARTS: Provide as part of contract: -Strip printer paper - 24 rolls for strip printer as specified in item 2.8.6	M				

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3.6	WARRANTY: One (1) year complete, on site, labour, parts and material warranty of all parts plus one (1) additional year of warranty on all parts and controls associated with the steam generator to commence after commissioning.	M				
3.7	SERVICE: for a period of one year (12 calendar months) to commence upon AAFC Project Authority acceptance of commissioning of unit on site. Service to include all labour and non-material related costs to: - perform 3 inspections at four month intervals - perform manufacturer recommended preventative maintenance inspections specific to the unit supplied and provide written reports after each inspection - make adjustments as needed to keep the unit in good working condition - institute repairs identified during inspections - must provide emergency service within two working days of notification.	M				
3.6	AAFC Acceptance: The autoclave must be delivered, off loaded FOB AAFC, Morden Research Station, Unit 100-101, Route 100, Morden, MB, installed and fully operational to the satisfaction of the AAFC Project Authority. Te AAFC Project Authority will accept and relocate to close proximity of final location for final installation by supplier.	M				

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