

MANDATORY PERFORMANCE SPECIFICATIONS MATRIX

Item	Description	Status	YES	NO	Requirement	Bidder Response	Bidder Cross Reference (SIR)
	The National Research Council of Canada (NRC) is interested in improving its capacity for molding of two different materials in the same parts for nano and micro-structured devices made of various materials developed by Functional Nanomaterials Group in the Medical Devices portfolio. In the context of this mandate, NRC is looking to acquire an Electric co-injection unit that will be installed on an Engel E-motion 110 injection molding machine. The scope of this work includes both the furnishing, delivery, installation and training for the equipment on or before March 28, 2013. The equipment must have a warranty of at least one year for parts and labour. Prototypes or demonstrator instrument will not be accepted. The supplier must provide telephone after sales service during normal working hours from 8h30 to 16h30, Monday to Friday, for a period of at least one-year after installation				<p>Note: It's a mandatory requirement that the bidder meets all of the mandatory and minimum mandatory specifications, as identified under Annex "A". Failure to meet the mandatory requirements addressed in this Annex will result in your proposal being deemed non-responsive and it shall not be given any further consideration in the evaluation process. <u>Action item for the bidder:</u> <i>The bidder is to check-off whether they meet this requirement or not. Example: (X) Yes or (X) No</i></p> <p><i>Bidders are requested to provide documentation to demonstrate compliance to each mandatory criterion listed in Annex A1, Mandatory Technical Specifications Matrix. Technical documentation such as specification sheets, technical brochures, and photographs or illustrations should provide adequate detail to substantiate that the instrument offered meets the technical requirements. It is the Bidders responsibility to ensure that the submitted documentation provides adequate detail to prove that the proposed product(s) meet the requirements of the technical specifications. If specific published technical documentation is not available, the bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.</i></p>		
	System Requirements						
1	Injection unit						
1.1	The screw diameter must be between 15 to 17 mm	M			15 to 17 mm		
1.2	The shot volume must be between 20 to 25 cc	M			20 to 25 cc		
1.3	The maximum injection velocity must between 180 and 200 mm/s	M			between 180 and 200 mm/s		
1.4	The maximum injection pressure must be at least 1500 bars	M			at least 1500 bars		
1.5	The maximum screw speed must be between 500 to 600 rpm	M			between 500 to 600 rpm		
1.6	The injection unit must be installed on a compact stand for horizontal operation	M			compact stand for horizontal operation		

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1.7	The stand for the injection unit must be installed behind the injection machine, on the non-operator side in a space having a maximal clearance of 45 inches	M			Behind the injection machine, fit in a 45 inches clearance		
1.8	The injection unit must include the followings: a material loader, a lifting kit and oil fill kit	M			material loader, lifting kit, oil fill kit		
1.9	The injection unit must have a control cabinet including a touch screen	M			Control cabinet and touch screen		
1.10	It is mandatory that the system has a communication interface compatible with an Engel E-Motion 110 injection molding machine and use the standard Euromap communication interface.	M			Communication compatible with Engle E-motion 110		
2	Electrical requirements						
2.1	The equipment must comply with all applicable Canadian standards and be CSA approved	M			Canadian standards compliance and CSA approved		
2.2	The equipment must be compatible with the following available electrical power : 600 volts, 3 phases; 208 volts, 3 phases, 120 volts, 1 phase	M			Compatible with 600 volts, 3 phases; 208 volts, 3 phase or 120 volts, 1 phase		
3	Technical support and training						
3.1	The vendor must provide installation of the injection unit and demonstrate proper operation.	M			Installation & Demonstration of system operation		
3.2	The vendor must provide on-site technical training in operation and maintenance of the equipment for a minimum of 2 days for 2 NRC employees	M			Training to NRC staff in operation & maintenance		
3.3	The vendor must provide on-site technical assistance/installation services in English or French.	M			Services in english or french		
4	Equipment documentation						
	The co-injection unit must be delivered with at least one printed copy and one electronic version of the following engineering documents:						
4.1	Circuit diagrams	M			Circuit diagrams		

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4.2	Terminal diagrams	M			Terminal diagrams		
4.3	Device arrangement drawings for operating surfaces	M			Device arrangement drawings for operating surfaces		
4.4	Maintenance manual with listing of all major commercial components/parts including model/part number and original manufacturer's name	M			Maintenance manual		
4.5	List of recommended spare parts	M			List of recommended spare parts		
4.6	Operation manuals	M			Operation manuals		
4.7	General drawings	M			General drawings		
4.8	All documentation must be in English or French	M			All documentation must be in English or French		
5	Quote documentation- required upon submission of bidding documents						
5.1	Detailed technical description of the equipment	M			Technical description		
5.2	Detailed price breakdown	M			Price beakdown		
6	Warranty						
6.1	A warranty for a minimum of 1 year for all spare parts, free shipping of parts and free maintenance and service, from date of final performance testing.	M			1 year warranty for all spare parts, shipping, maintenance, and service, from date of final performance testing.		

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