

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-199
Item to be Scouted	Variable Refrigerant Flow (VRF) system
Days to be scouted	45
Response Due By	09/07/2024
Description	Multi-zone air source heat pump system with heat recovery capability.
Notify Requester Immediately	
State item to be used in	Vermont

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>Factory fabricated air source heat pump system including the following components.</p> <p>The condensing unit includes compressors, motors, fans, heat exchanger, electronic expansion valves, solenoid valves, 4-way valve, distribution headers, capillaries, filters, shut off valves, oil separators, service ports, liquid receiver (heat recovery only) and suction accumulator.</p> <p>Branch selector box cabinets have a galvanized steel casing and multiple electronic expansion valves, a sub-cooling loop, and electronic controls. The unit includes sound absorption thermal insulating material.</p> <p>Fan coil units include a galvanized steel cabinet, supply fan, drain pan, and electronic controls.</p>
Provide dimensions / size / tolerances / performance specifications for the item	<p>See attached product data for performance specifications and equipment dimensions.</p> <p>Performance requirements are indicated in the attached equipment schedules. Performance requirements may change as the design progresses.</p>
List required materials needed to make the product, including materials of product components	Galvanized steel, wiring, microprocessor controls, steel fasteners, metallic valves, insulation, vibration isolators
Are there applicable certification requirements?	Yes
Certification(s) required	ISO 13485 ,ISO 9001 ,UL
Are there applicable regulations?	Yes

Details	The following certification requirements apply: <ul style="list-style-type: none"> • UL • ETL • ISO • ASHRAE • AHRI • ISO • ANSI <p>Must comply with Northfield VT building and energy codes (https://www.northfield-vt.gov/zoning).</p>
Are there any other standards, requirements, etc.?	Yes
Details	Units need to comply with the local (Northfield Vermont building and energy codes) building and energy codes.
NAICS 1	333415 Air-conditioning and warm air heating equipment and commercial and industrial refrigeration equipment manufacturing
NAICS 2	
Additional Technical Comments	The system must include low ambient heating capability.

Section 4: Business Information

Estimated potential business volume	Information is not available. Mitsubishi is one of the leading manufacturers for this type of equipment. <p>Project Needed Unit Count:</p> <p>VRF Systems</p> <p>Outdoor Condensing Units – 2</p> <p>Indoor Fan Coil Units – 17</p> <p>Branch Selector Boxes – 2</p> <p>Twinning kit – 1</p> <p>Panel Heater – 2</p> <p>Snow/Hail Guards – 6</p> <p>Snow Hood – 6</p> <p>Equipment Rails – 3</p> <p>Decoration Panel -12</p> <p>Control package for system (controllers, sensors, thermostats etc) - 1</p>
Estimated target price / unit cost information (if unavailable explain)	\$269,000
When is it needed by?	Construction is scheduled to start in February of 2025.
Describe packaging requirements	Individually Packaged
Where will this item be shipped?	Norwich University, Northfield VT

Additional Comments

Is there other information you would like to include?	Contact information for questions including BABA/Buy American compliance: <p>Jones Architecture Alya Staber alya@jonesarch.com</p> <p>Please copy scouting@nist.gov on all correspondence.</p>
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