

Mississippi State University
Notice of Proposed Sole Source Purchase
156-05

Mississippi State University anticipates purchasing the item(s) listed below as a sole source purchase. Anyone objecting to this purchase shall follow the procedures outlined below.

1. Commodity or commodities to be purchased (make, model, description):

Make: Turbine Technologies

Model: Rankine Cyclor

Description: The RankineCycler™ is a ready to operate micro steam energy generator about the size of an average office desk. The RankineCycler™ educational steam turbine plant utilizes working components such as a multi-pass, ASME certified boiler. The unit also consists of an axial-flow steam turbine, AC/DC generator, and a condenser tower. Front and rear boiler doors open, providing a clear view of flame tubes, the fuel nozzle, vortex generator and igniter. A variable speed combustion blower enables operation on either LP or natural gas. Sensors are installed at all key locations and measure temperatures, pressures, fuel-flow rate and steam generator energy plant output. Signal outputs are conditioned and factory calibrated for "real-time" on-screen display, allowing students to complete many energy related experiments.

2. Explanation of the need to be fulfilled by this item(s) and why it is the only one that can meet the specific needs of the department:

The RankineCycler™ is a necessary instructional tool to meet the requirements for the renovation of the mechanical engineering department's thermal fluids undergraduate laboratory course.

Turbine Technologies RankineCycler addresses the educational needs of our undergraduate students while maintaining compatibility with current software systems utilized within the mechanical engineering department. There are no other suppliers of an educational, turn-key Rankine Cycle system that meets the requirements of software compatibility, American Society of Mechanical Engineering certifications for the boiler and piping, and shipped ready-to-operate.

3. Name of company/individual selling the item and why that source is the only possible source that can provide the required item(s):

Sold By: Turbine Technologies (sole vendor)

4. Estimated cost of item(s) and an explanation why the amount to be expended is considered reasonable:

Estimated Cost: \$32593.92

Amount is within the expected price range of this caliber of laboratory equipment

5. Explanation of the efforts taken by the department to determine this is the only source and the efforts used to obtain the best possible price:

Turbine Technologies is the manufacture and sole vendor of this product.

All applicable discounts were explored and applied

Any person or entity that objects and proposes that the commodity listed is not sole source and can be provided by another person or entity shall submit a written notice to:

Don Buffum, CPPO
Director of Procurement & Contracts
dbuffum@procurement.msstate.edu

Subject Line must read "Sole Source Objection"

The notice shall contain a detailed explanation of why the commodity is not a sole source procurement. Appropriate documentation shall also be submitted if applicable.

If after a review of the submitted notice and documents, MSU determines that the commodity in the proposed sole source request can be provided by another person or entity, then MSU will withdraw the sole source request publication from the procurement portal website and submit the procurement of the commodity to an advertised competitive bid or selection process.

If MSU determines after review that there is only one (1) source for the required commodity, then MSU will appeal to the Public Procurement Review Board. MSU will have the burden of proving that the commodity is only provided by one (1) source.