



Request for Quotation

245 NE 30 Rd.

6027.1

Great Bend KS, 67530

Date: February 27, 2011

Vendor:	Notes
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Quantity	Description	Unit Price	Extension
	<p>Mechanical installation of trailer components</p> <p>This requisition describes the work scope necessary to provide material and labor to fabricate, paint, assemble components and install piping and electrical support frames, blower fans and other owner-furnished equipment in accordance with drawing set M-6027.1.001 drawings 1-67. Vendor to Fabricate work bench and furnish tool bottom stack chest, heavy duty usage. Owner-furnished material described in bom as part of this document. In addition, vendor to furnish identical piping and assembly components for a fixed facility to be assembled elsewhere. Supports, fan mounting brackets, work bench and tool box are not required. All other supply is required as mobile facility.</p> <p>Specific scope of work:</p> <p>Trailer</p> <p>Vendor to locate and bore 2 each holes of pipe id thru both ends of trailer wall for piping entry and exit. Holes will be sealed between trailer walls before piping is installed and paint touched and calked after piping is installed. Trailer has frame members at support foot locations and all equipment shall be thru-bolted thru trailer frame with grade 5 or better bolting , 4 bolts per leg. Table and tool cabinet to be thru-bolted to floor with three inch square back up plates on the bottom side of trailer floor. Bolting shall</p>		

	<p>have both a flat and compression lock washer and threads have Loctite red applied before nut is attached. Thru floor penetrations shall be sealed with silicone-based caulk around penetrations before frame members are placed.</p> <p>Piping</p> <p>Pipe spools are to be of 4 inch nid aluminum pipe or tubing. Pipe to be 6061 T6 sked. 40, or tubing to be 6063 T5, 0.125 wt. or greater. Bid alternatives will be considered. Flanges to be made from 3/8 inch 3003 H14 or 5052 H32 plate. Flanges to be shaped as to flange ANSI 150# with rounded outer perimeter edges for personnel protection. Flanges to be welded in a manner to prevent distortion to square-cut pipe ends to form spools. Flanges attached to the Daniel Sr. orifice fitting are required to be ANSI 600# shape. Gaskets for the flange make up will be 3/8 inch neoprene. The Daniel Sr. fitting will be furnished flanged by weld-end and an ANSI 600# rfwn flange will have to be welded to the fitting. The ultrasonic meter will be furnished weld- end and aluminum flanges, ANSI 150# bolt pattern will have to be added to both meter ends. Flange bore to match fitting. The internal i.d. of the orifice fitting shall be matched by a taper ring within the pipe. The ring shall have a 12:1 taper. Bolts shall be used for piping assembly. Where aluminum flanges are bolted, both sides of the bolting shall have flat washers, the nut side shall also have a compression spring washer. All fasteners to be hot dipped galvanized. The clear Lexan viewing spool shall have an aluminum back up ring in the hole pattern section. All penetrations in the pipe shall be deburred and smooth. Holes shall be drilled. End caps shall be furnished for exposed external piping. 2 additional meter run replacement sections shall be furnished.</p> <p>Piping shall be free of buckshot and distortions.</p> <p>Piping overall dimensions shall be maintained as shall upstream and downstream overall length inclusive of meter. Pipe spools shall be adjusted for each meter flange-to-flange dimension to maintain the sectional overall length such that all meter sections are interchangeable within each other and the replacement spools.</p>		
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	<p>Structural and supports</p> <p>Structure and supports shall include fan-mounting supports as drawing detailed, pipe and electrical supports, crossover supports and work bench in accordance with drawing details. Unistrut noted for electrical box mounting will be furnished under a separate electrical contract although pipe mounts shall be as to drawings.</p> <p>Paint</p> <p>All bare steel, including Daniel Sr. fitting, shall be sand, grit or shot- blasted to a SSPC-6 finish and coated with 2-3 mil polyamide cured epoxy primer and top coated with 5 mil. High-build aliphatic polyurethane before assembly. Color to be RAL 7031 or paint manufacturers nearest equivalent. Damaged coating areas to be feather sanded and recoated. All steel shall be painted before assembly. Aluminum pipe will be left in bare condition.</p> <p>Assembly</p> <p>Assembly shall consist of installing fan support to trailer frame. Install fans on ½ inch rubber foot pads. Excessive compression of the rubber pads is to be avoided by using Loctite Red on fastener threads for vibration stability. Bolting procedure shall be as for flange gaskets. Final installed centerline of fan nozzles will then be datum point for piping centerline. A pilot hole shall be drilled thru the trailer wall at the mounted fans inlet centerline. The pilot hole height will be used to compare the centerline height of the structural pipe carriers. In the event the center line is below the pipe rack pipe center points, the fan shall be shimmed using aluminum shims. In the event the fan nozzle centerline is above the pipe cradles, the cradles shall be shimmed using additional rubber thickness. Pipe shall rest on cradles in all points before clamp down. Clamps to be designed by fabricator and approved by owner. Clamps are to be designed to prevent compression of the pipe and a safety chain will be attached to a minimum of two flanges per meter run, tied to the support piping. Stainless aircraft or marine cable can be used in lieu of chain. The chain will be used to prevent fore and aft slip of the meter runs during travel conditions. A fabricated flange nozzle, attached to the fan inlet, will be used to receive a 4 inch diameter by 12 inch long, rubber hose section. The hose section will be the transition device to</p>		
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	<p>connect the fans to the meter run piping. A like fabricated nozzle will be used to attach the hose to the meter runs. This method is used to absorb vibration and reduce fan noise thru the meter runs.</p> <p>The pipe and instrument support structure is designed to be assembled within the trailer utilizing grade 8 structural bolts fasteners with compression washers and Loctite.</p> <p>The bench shall be of fabricator design to withstand 200 lb. point load and total weight of 500 lbs.</p> <p>The rear piping thru wall extensions shall have a plate ANSI 150# detachable flange with a matching flange to be bolted to it. This is to allow spectacle blinds and disruption plates to be installed.</p> <p>Drawings</p> <p>Vendor to provide all shop drawings and instructions necessary to complete the project</p> <p>Material handling</p> <p>Vendor shall receive and identify all material on an incoming basis. The material is to be project-isolated in a secure area. Owner-furnished material shall be received in a hold area pending Letton-Hall receipt and inspection and then transferred to project secure area. There are two trailers to be outfitted and, in the event the vendor is selected for both trailers, the owner- furnished material shall remain securely separated but vendor-furnished material may be co-mingled to the extent necessary. Only one fixed facility is provided. Electrical material will also be received and, in the event that the fabrication vendor is not the electrical installer, then provision shall be made for electrical subcontractor to work at premises. A separate rfq package for the electrical scope is forth coming.</p> <p>Commercial negotiations will be with the respective colleges after purchase recommendation is issued by The Letton-Hall Group.</p>		
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	<p>Questions pertaining to this RFQ should be addressed to day@Letton-Hall.com</p> <p>Prices breakdown shall be for 1 trailer and 1 fixed facility, priced as separate but combined total.</p> <p>Option for one additional trailer shall be offered.</p>		
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