Salient Characteristics of Portable Field Shower Set with Sinks (PFSSS)

Project/Requirement: Portable Field Shower Set with Sinks (PFSSS)
Reference Make/Model: Highland Engineering, Inc. (HEI) P/N 701-4S4SPFSS (or Equal)
Reference Part Number: 701-4S4SPFSS

Instructions for Evaluators: To be considered for award, an "equal" product must meet or exceed all of the following minimum essential characteristics.

Nomenclature overview:

• Completely self-contained system

• Water supplied by included 3,000 gallon source onion tank

• Supply pump and heating skid

• Electrically driven self-priming supply pump delivering up to 950 gallons per hour

• 50 gallon capacity fuel tank

• On-demand water heater

• Tempered mixed water supply

• 4 aluminum individual shower stalls with water-proof desert tan canvas walls. Must be collapsable for storage and transportation. Dimensions are 84” in height, 36” in width, and 36” in depth.

• 2 collapsable sink tables (36” in height, 36” in width, 24” in depth) with 2 aluminum sink basins and 2 shatterproof acrylic mirrors each (36” in height, 36” in depth). Mirrors must connect to sink tables and are removable for transit and storage.

• System can operate in many different layouts – more or less showers/sinks

• Single point power connection – 60 AMP Class L

• Waste water removed from system will diaphragm pump

• Water can be directed to local receptacle or directed and stored within the supplied 3,000 gallon waste onion tank

Item	Required Salient Characteristics

1	System Portability: Must be a self-contained, expeditionary system with stackable/collapsible frame elements for dense transport.
2	Showering Capacity: Must provide a minimum of four (4) individual shower stalls operating simultaneously. Tempered mixed water supply • 4 aluminum individual shower stalls with water-proof desert tan canvas walls. Must be collapsable for storage and transportation. Dimensions are 84” in height, 36” in width, and 36” in depth
3	Hygiene Stations: Must provide a minimum of four (4) handwashing stations (sinks) and four (4) mirrors. • 2 collapsable sink tables (36” in height, 36” in width, 24” in depth) with 2 aluminum sink basins and 2 shatterproof acrylic mirrors each (36” in height, 36” in depth). Mirrors must connect to sink tables and are removable for transit and storage
4	Water Heating: Must have an integrated multi-fuel/diesel water heater capable of producing at least 41 kW of heat.
5	Fuel Storage: Must have an integrated fuel storage tank with a capacity of at least 50 gallons.
6	Water Temperature Safety: Must include a mechanical safety tempering valve to regulate mixed-water temperature and prevent scalding.
7	Fresh Water Storage: Must include one (1) 3,000-gallon collapsible tank (onion tank) for fresh/source water storage.
8	Wastewater Storage: Must include one (1) 3,000-gallon collapsible tank (onion tank) for wastewater/greywater collection.
9	Water Distribution: Must include an electric-driven, self-priming fresh water pump capable of supporting up to 950 GPH flow rates.

10	Wastewater Removal: Must include a heavy-duty diaphragm waste pump for greywater extraction and transfer.
11	Power Connection: The entire system must consolidate to a single-point power connection utilizing a standard military 60 AMP Class L connector.
12	Completeness: Must ship complete with all necessary hoses, fittings, adapters, and cables required for immediate "out-of-the-box" operation.

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Contingency Operations Program Manager