

Invitation for Bid
Pennsylvania Department of Agriculture
Bureau of Ride and Measurement Standards

SCOPE OF WORK:

The Bureau of Ride and Measurement Standards is seeking bids for one Slip-On Calibration unit, with three (3) Special J VRP 5-gallon Stainless Steel Provers, and three (3) 80-gallon Stainless Steel Holding Tanks. Unit must be manufactured by Seraphin and only the Manufacturer and Representatives are allowed to bid.

Work Completion/ General Specification:

Slip on Calibration Unit is to be manufactured according to the specification below.

EQUIPMENT SPECIFICATIONS:

SLIP-ON CALIBRATION UNIT, WITH THREE (3) SPECIAL J VEP® 5 GALLON STAINLESS STEEL PROVERS, AND THREE (3) 80 GALLON STAINLESS STEEL HOLDING TANKS

(3) VEP® PROVERS (PATENTED IN THE USA & CANADA)

DESCRIPTION: THE VEP® HAS A CAP MOUNTED ON ITS NECK THAT CREATES A SEAL AROUND THE DISPENSER NOZZLE AS THE PROVER IS FILLED AND DRAINED ALSO A VENT LINE IS FITTED FROM THE TOP OF THE PROVER TO THE PRODUCT HOLDING TANK ON WHICH THE PROVER IS MOUNTED. THE NECK IS SEALED WITH A FLAPPER AND BOOT TO PREVENT EVAPORATION AND RETAIN SATURATED AIR DURING THE DRAIN-FILL CYCLE. THE VOLUME STANDARD, HOLDING TANK AND VENT LINE CONFIGURATION IS SUCH THAT WHEN THE PROVER IS DRAINED, THE AIR IN THE STORAGE TANK, WHICH IS SATURATED WITH GASOLINE VAPOR, IS DRAWN THROUGH THE VENT LINE INTO THE PROVER, THEREBY MAINTAINING A SATURATED ENVIRONMENT WITHIN THE PROVER.

5 GALLON PROVER SPECIFICATIONS

CONSTRUCTION	BUILT TO N.I.S.T. HANDBOOK 105-3 STANDARDS AND API MANUAL OF PETROLEUM MEASUREMENT STANDARDS CHAPTER 4
CALIBRATION	FACTORY CERTIFIED USING STANDARDS TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
NOMINAL CAPACITY	5 GALLON - CALIBRATED "TO DELIVER" AT 60 DEG F
MATERIAL	TYPE 304 STAINLESS STEEL
DRAIN VALVE	CENTER DRAIN, 2 INCH BUTTERFLY VALVE
DESIGN	REINFORCING BANDS TO PREVENT DISTORTION OF PROVER WHEN FULL WITH LIQUID AND WHEN BEING TRANSPORTED.
LEVEL	T TYPE LEVEL--ENABLES OPERATOR TO ENSURE PROVER IS LEVEL PRIOR TO

SCALE RESOLUTION	TESTING. 0.5 CUBIC INCHES
REQUIRED SCALE RANGE	±15 CUBIC INCHES. THE GAUGE SCALE SHALL BE GRADUATED BOTH ABOVE AND BELOW THE NOMINAL CAPACITY GRADUATION BY AN AMOUNT NOT LESS THAN 1.5 % OF THE PROVER VOLUME
VENT	1 INCH VENT LINE (SHOULD BE USED WITH 1 INCH VAPOR HOSE)
EVAPORATION CONTROL	CAP WITH CHAIN ON A SEALED NECK WITH FLAPPER AND BOOT TO PREVENT EVAPORATION AND RETAIN SATURATED AIR DURING THE DRAIN CYCLE
TEMPERATURE MEASUREMENT	(1) STAINLESS STEEL THERMOMETER WELL LOCATED SO THAT THE CLOSED END IS AT THE APPROXIMATE CENTER OF THE PROVER.
DRAIN SIGHT GLASS	INSTALLED BETWEEN PROVER DRAIN VALVE AND LEVELING BALL JOINT TO ENSURE DRAIN TIME MEETS NIST (30 SECONDS AFTER MAIN FLOW CESSATION) DRAIN REQUIREMENTS. ALSO USED TO CHECK DRAIN VALVE FOR LEAKAGE.
LEVELING METHOD	COMPLETE STAINLESS STEEL LEVELING BALL JOINT. INCLUDES 10" STAINLESS STEEL FLANGE, BALL JOINT, RETAINING NUT AND HARDWARE WITH GASKET--ALLOWS EACH PROVER TO BE EASILY LEVELED BY SWIVELING ON ITS BALL JOINT AND SECURED IN PLACE
LOCKING DEVICE	EACH PROVER HAS A THREE PIECE STAINLESS STEEL LOCKING DEVICE TO STABILIZE THE PROVER DURING TRANSPORT, (INCLUDES A BRACKET ON THE PROVER, A BRACKET ON THE BALL JOINT AND A "U" FITTING TO CONNECT THE TWO BRACKETS AND SECURE THE PROVER.)
WRENCH	(1) WRENCH TO HELP REMOVE THE PROVERS FROM HOLDING TANKS.

HOLDING TANKS

HOLDING TANKS (3)	80 GALLON STAINLESS STEEL STORAGE TANKS, ONE FOR EACH PROVER (TANKS ARE SLOPED AND CREASED TO PROVIDE COMPLETE DRAIN).
HARDWARE	ALL HARDWARE TO BE STAINLESS STEEL
LIQUID LEVEL INDICATOR	GIVES OPERATOR APPROXIMATE LIQUID LEVEL IN EACH HOLDING TANK
TANK DRAIN LINES	2" STAINLESS STEEL PIPE DRAIN LINES CONNECTED INDIVIDUALLY TO EACH HOLDING TANK. QUICK CONNECT MALE COUPLING WITH CAP AND CHAIN.
TANK DRAIN VALVES	2" BUTTERFLY VALVES (ALUMINUM HOUSING).
DRAIN HOSES	(2) 6 FT., 2" DIAMETER PETROLEUM DRAIN HOSES WITH QUICK CONNECT FITTINGS--FOR GRAVITY DRAINING OF HOLDING TANKS BACK TO THE STORAGE TANK WITH QUICK CONNECT ELBOW

DRAIN HOSE TUBES (2) ALUMINUM DRAIN HOSE STORAGE TUBES, (4" DIAMETER EACH WITH A VENTED CAP ON ONE END, AND A HINGED, LOCKABLE ACCESS DOOR ON THE OTHER. ALL ALUMINUM CONSTRUCTION.)

SEALS AND ELASTOMERS ALL TANK AND VALVE GASKETS ARE VITON, BALL JOINTS HAVE INTERNAL TEFLON SEALING BUSHINGS

GROUNDING REEL 50 FT. ON RETRACTABLE REEL MADE OF GALVANIZED STEEL CABLE MOUNTED FOR DISSIPATION OF STATIC ELECTRICITY WITH COPPER ALLIGATOR CLAMP. JAWS OPEN TO 1.25 INCHES

MISC. ACCESSORIES (1) S/S SPANNER WRENCH, (FOR TIGHTENING OR LOOSENING THE BALL JOINTS) (1) 18" ALUMINUM DROP TUBE, (TO ALLOW DRAIN HOSES TO EASILY FIT INTO BELOW GROUND STORAGE TANKS)

OPERATOR STEP: ALUMINUM GRIP STRUT STEP (REMOVABLE)--ENABLES OPERATOR TO COMFORTABLY AND SAFELY REACH TOP NECK OF PROVER WHEN TESTING.

COVER

E300419.F1 SLIP ON SPECIAL J PROVER COVER

HELP PREVENT YOUR 5 GALLON VRP®/VEP® PROVERS FROM BEING STOLEN OR VANDALIZED.

PROTECT YOUR 5 GALLON VRP®/VEP® PROVERS FROM THE ELEMENTS AND ROAD DEBRIS.

IMPROVE TEMPERATURE STABILITY FOR YOUR 5 GALLON VRP®/VEP® PROVERS BY COVERING FROM DIRECT SUNLIGHT.

POWDER COATED STAINLESS STEEL AND ALUMINUM DIAMOND PLATE CONSTRUCTION TO PROTECT YOUR INVESTMENT FOR YEARS.

Bid Award:

This contract shall be awarded to the bidder providing the lowest priced total dollar amount bid for the project as outlined in the specifications to include manufacture, installation, and delivery charges.

Item # 1: SLIP-ON CALIBRATION UNIT, WITH THREE (3) SPECIAL J VEP® 5 GALLON STAINLESS STEEL PROVERS, AND THREE (3) 80 GALLON STAINLESS STEEL HOLDING TANKS

Grand Total: \$_____

Quotes:

All quotes must be submitted electronically in SRM by 2:00 pm, March 4, 2026, if you have any questions please contact:

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