

ATTACHMENT D #1 - HVAC (OIL) - SINGLE FAMILY DWELLINGS

Bidder Name:

Category C: OIL

Bid Response Instructions:

1. Enter your Firm Name:
2. Enter your bid pricing in the two **Bid Price** columns - Labor and Material. The bid prices will automatically multiplied by the **Bid Units** to calculate the total bid price for each line item. The Bid Units are being used for the purpose of calculating the Bid Total, which is used to determine the lowest bidders. Bid Units are not an estimate of the work to be awarded. Contractors will be tied only to the line item **Bid Prices** submitted in the calculation of work orders.

NOTES:

1. Bid Packet is for *Single Family* and *<5 unit Multi-Family Dwellings*. Each part is separated into categories by fuel source. You **must** fill out each bid item in each category of service that you are willing and capable to provide within a particular category to be considered responsive in that category.
2. Must comply with *Site Built and Manufactured Home Field Guide and Standards for the State of Oregon Weatherization Assistance Program*.
3. Installation Requirements: Contractor shall honor 2 year parts and labor warranty, all products and materials shall be formaldehyde free, installed to manufacturer's installation instructions and to code. All work performed must pass inspection prior to authorizing payment.

* Each work item below shall include the cost of material and labor. In most case permits will be required to perform each work item. Bid prices included in this request must **NOT include** the cost of required permits. Copies of all necessary permits **MUST** be submitted to the County at the time of invoicing in order to receive reimbursement.

YOU MUST SUBMIT BID PRICES FOR ALL BID ITEMS IN A CATEGORY TO BE CONSIDERED RESPONSIVE

LINE ITEM #	LINE ITEM DETAIL	Bid Price: Labor	Bid Price: Material	Bid Units	Line Item Bid = (Bid Price Labor + Bid Price Material)xBid Units
FURNACE COMPONENTS					
1	Furnish & Install Sight-Impaired Thermostat For Heating and Cooling Systems. (Bid per one) 1. Remove old thermostat. 2. Furnish new sight-impaired thermostat for furnace. 3. Replacement thermostat shall meet or exceed original electrical and mechanical Specification. 4. Replace thermostat shall have a heat anticipator. 5. Thermostat shall be readable by the sight-impaired. A large digital readout is preferred. Replacement thermostats include electric, gas, oil and propane furnaces, heat pumps / air conditioners and electric baseboard or in wall electric heaters.			10	
2	Furnish & Install Thermostat Wiring For Heating and Cooling Systems. (Bid per one) 1. Install new thermostat wiring to code. 2. New thermostat location must be code approved.			7	
3	Furnish & Install Dedicated Circuit. (Bid per one) 1. Furnish and Install a dedicated circuit in an existing electric panel capable of handling the load of a new oil furnace, to code.			10	
4	Furnish & Install GFCI Protected Outlet with a Light Switch and Light. (Bid per one) 1. To be installed in crawl space or attic as required by local code.			3	
5	Furnish & Install Flue Pipe (Single Wall) for Gas / Oil Furnace. (Bid per lineal foot) 1. Furnish and install single-wall flue pipe from furnace to chimney.			10	
6	Install Additional Combustion Air up to Four (4) Grills in Appliance Enclosure. (Bid per set of four (4), two (2) on each side of the door) 1. This application will be applied when the space in which fuel-burning appliances are located and does not meet the criteria for indoor air. 2. One opening shall be within 12-inches of the bottom of the space and 12-inches from the ceiling. 3. Sizing of combustion air grills must meet local code in effect at the time the work in being performed.			15	
7	Install Outside Combustion Air to Appliance. (Bid per lineal foot) 1. Outside combustion air shall be supplied through ducts that are at least six (6) inches in diameter and 26 gauge metal, extending from the appliance room to the outdoors. 2. Install duct on the supply side of the plenum with non-closing grill. 3. Openings are permitted to connect to spaces in direct connection with the outdoors, such as ventilated crawl spaces or ventilated attic spaces.			25	
8	Add a Supply Duct 26 Gauge Metal Duct up to 8 Inches in Diameter. (Bid per lineal foot) 1. Install a new supply duct run to the room needed from the main trunk or plenum.			160	
9	Add a Cold Air Return 26 Gauge Metal Duct up to 14 Inches in Diameter. (Bid per lineal foot) 1. Install a new cold air return duct run to the room needed from the main cold air return trunk or plenum. 2. Installation of new cold air return duct must be installed to local mechanical code.			185	
10	Add or Replace a Supply Register up to 6 Inches x 14 Inches Made of Metal. (Bid per one) 1. New register must be screwed to the surface and have a damper. 2. New register must be white or brown.			20	

	3. New register must be installed to local mechanical code.				
11	Add or Replace a Cold Air Return Register Up to 16 Inches x 24 Inches Made of Metal. (Bid per one) 1. New register must be screwed to the surface. 2. New register must be white or brown. 3. New register must be installed to local mechanical code.			5	
12	Install a Filter Cabinet on Cold Air Return Side of the Furnace. (Bid per one) 1. Filter cabinet must be the same size as the cold air return. 2. Contractor must install the filter in the filter cabinet and leave two additional filters with the resident. 3. Filter cabinet shall be sealed in place with mastic. 4. Filter cabinet must be installed to local mechanical code.			15	
13	Remove the Cold Air Return Grill and Install a Filter Grill at the Cold Air Return Opening. (Bid per one) 1. Filter grill must be the same size as the cold air return. 2. Contractor must install the filter in the filter grill and leave two additional filters with the resident. 3. Filter grill must be white or brown. 4. Filter grill must be installed to local mechanical code.			15	
14	Time to Evaluate Dead Furnace and write up Scope of Work Proposal for Stick Built Homes with Oil Furnaces. (Bid per one) 1. Indicate what is needed to repair the furnace or indicate that the furnace needs to be replaced. 2. Repair work may be conducted at the time of the evaluation as long as the total cost does not exceed \$500. Repair work must be installed to local mechanical code. 3. Fax or email the evaluation to the Weatherization Program within 24 hours of completing the evaluation or the next business day whichever one is sooner. 4. The contractor doing the evaluation may not receive the repair or replacement work unless the repair work is less than \$500.			8	
15	Respond to NO Heat Situation Within 18-24 Clock Hour Period. (Bid per one) 1. Respond to NO heat situation within 18-24 hours of receiving the fax work order from the Weatherization Program. 2. If the lowest bid contractor cannot respond within the 18-24 hour period the Weatherization Program reserves the right to go to the next lowest bidder. 3. If repair is \$500 or less, complete the repair at the time of the visit. 4. If repair exceeds \$500 call the Weatherization Program for next steps. 5. If the furnace must be replaced and your company is the lowest bidder for that replacement item the Weatherization Program will approve the replacement at the bid price. 6. If your company is not the lowest bidder for the replacement item and the lowest bidder can install the furnace within 24-48 hours the Weatherization Program reserves the right to have the contractor bidding the lowest install the furnace.			66	
16	Oil Furnace Tune-Up. (Bid per one) Oil furnace tune-up shall include all materials and equipment required to perform the tune-up. This shall include but is not limited to the following: 1. Oil filter and air filter. 2. Nozzle. 3. Hazardous waste disposal according to the rules and regulation of the State of Oregon. 4. Instrumented tune-up must meet or exceed 81% steady state efficiency. 5. To be warranted for thirty (30) days following the tune-up date.			18	
17	Install "In-Line" Oil Filter. (Bid per one) 1. Furnish and install oil filter. 2. Cartridge for filter must be included. 3. All materials and equipment necessary to install filter must be included. 4. Hazardous waste disposal according to the rules and regulations of the State of Oregon.			5	
18	Install a High Efficiency Flame Retention Burner. (Bid per one) 1. Remove and dispose of old burner according to rules and regulations of the State of Oregon. 2. Install appliance to conform to the conditions of the label and the manufacturer's installation instructions. 3. Instrumented tune-up must meet or exceed 81% steady state efficiency, reading of one (1) or less on the smile scale and a maximum oxygen reading of 7% or carbon dioxide of 11%. 4. Replace oil filter as required. Furnish or install an "in-line" oil filter cartridge if one does not exist.			3	
19	Furnish & Install Barometric Damper. (Bid per one) 1. Venting system shall satisfy the draft requirement of the equipment in accordance with the manufacture's installation instructions. 2. Installation shall be constructed and installed to develop a positive flow to convey combustion products to the outside atmosphere. 3. Installation shall include all parts and equipment to install barometric damper.			3	
20	Power Vacuum Heat Exchanger. (Bid per one) 1. System must be cleaned adequately to provide good draft. 2. Cleaning must include at a minimum: a. Flue. b. Smoke pipe.			2	

	<p>c. Heat exchanger.</p> <p>3. Removal of all residues from the area and the cleaning around the furnace.</p> <p>4. Disposal of all hazardous waste according to the rules and regulations of the State of Oregon.</p>			
21	<p>Furnish & Install new Energy Star 85% AFUE Oil Furnace (Up to 120,000BTU Output) and Fan Switch. (Bid per one) Efficiency rating is defined in the most recently published GAMA Efficiency Certification Book.</p> <ol style="list-style-type: none"> 1. Installation must meet the manufacturer's specifications. 2. This item shall include, but not limited to, all equipment, venting, electrical, and materials necessary to install new furnace and connect existing ductwork to new furnace. 3. Install a filter cabinet on cold air return side of the furnace, provide 2 air filters. 4. Disposal of the old furnace in accordance with the rules and regulations of the State of Oregon. 5. The furnace shall meet the oil steady state efficiency post test: <ol style="list-style-type: none"> a. Minimum of 85% steady state efficiency. b. A reading of one (1) or less on the smoke scale. c. A maximum oxygen reading of 7% (a minimum carbon dioxide reading of d. Carbon Monoxide reading of 0 in supply and no more than 100ppm in the flue. 6. Fan switch shall be installed to permit just the fan to run without heat being produced. CONT... 7. Furnace must be installed to local mechanical code in effect at the time of installation. 			5
22	<p>Furnish and Install New Energy Star 85% AFUE Oil Furnace (Over 120,000 BTU Output and Fan Switch. (Bid per one) Efficiency rating is defined in the most recently published GAMA Efficiency Certification Book.</p> <ol style="list-style-type: none"> 1. The installation must meet the manufacturer's Specifications. 2. This item shall include but not limited to all equipment, venting, electrical, and materials necessary to install new furnace and connect existing ductwork to new furnace. 3. Install a filter cabinet on cold air return side id the furnace, provide 2 air filters. 4. Disposal of the old furnace in accordance with rules and regulations of the State of Oregon. 5. The furnace shall meet the oil steady state efficiency post test: <ol style="list-style-type: none"> a. Minimum of 85% steady state efficiency required. b. A reading of one (1) or less on the smoke scale. c. A maximum oxygen reading of 7% (a minimum carbon dioxide reading of d. Carbon Monoxide reading of 0 in supply and no more than 100ppm in the flue. 6. Fan switch shall be installed to permit just the fan to run without heat being produced. 7. Furnace must be installed to local mechanical code in effect at the time of installation. 			3
23	<p>Furnish & Install Stainless Steel Flue Liner up to 25'. (Bid per one)</p> <ol style="list-style-type: none"> 1. Furnish and install stainless steel liner in existing masonry chimney. 2. Installation of flue liner and material must meet local mechanical code. 3. Installation must meet manufacturer's Specifications. 			5
24	<p>Furnish & Install Stainless Steel Flue Liner up to 35'. (Bid per one)</p> <ol style="list-style-type: none"> 1. Furnish and install stainless steel liner in existing masonry chimney. 2. Installation of flue liner and material must meet local mechanical code. 3. Installation must meet manufacturer's specifications. 			5
25	<p>Clean Existing Oil Tank (Above or Below Ground. (Bid per one) Clean existing oil tank above or below per industry standards.</p>			3
26	<p>Install a New Above Ground Oil Tank 275 Gallons. (Bid per one)</p> <ol style="list-style-type: none"> 1. Installation may be in a basement or outside. 2. Outside installation requires a concrete pad for the oil tank to sit upon. 3. The new oil lines shall be billed at time and materials. 4. The oil tank must be installed to DEQ regulations and to local code. 			5
27	<p>Perform & Record Heat Rise Test on Furnace. (Bid per test)</p> <ol style="list-style-type: none"> 1. Test shall be performed by taking one reading on the supply air. 2. A second test reading shall be performed on the return air. 3. With the two readings, a heat rise test will be compared to that recommended by the furnace manufacturer and the furnace fan shall be adjusted accordingly. 4. Test results with any corrective measures taken shall be submitted with the invoice to the Weatherization Program. 			7
28	<p>Perform & Record Static Pressure. (Bid per one) Perform a static pressure test, make necessary corrections and report the findings to the Weatherization Program in either inches of water/column or pascals</p>			2
29	<p>Reduce fan speed on existing furnace. (Bid per one)</p> <ol style="list-style-type: none"> 1. Measure static pressure and heat rise after reducing fan speed (heat rise not to exceed manufacturer's recommendations after adjustment). 2. Document test results on invoice. 			3
30	<p>Furnish and Install Tiger Loop (or equivalent product) on Oil Line. (Bid per one)</p>			8
31	<p>R/R Oil Lines – per 10 lineal feet. (Bid per one)</p> <ol style="list-style-type: none"> 1. Bid to include all connectors and disposal of old lines. 			3

	2. Furnace must be operable after replacement of lines.			
32	Transfer Oil from Old Tank into New Tank. (Bid per one) 1. Bid to include filtration of old oil.			2
33	Remove and Replace High Limit Switch – All furnaces. Maximum temperature shall be no higher than 180 degrees. (Bid per one)			2
34	Remove and Replace Furnace Transformer – All furnaces. (Bid per one)			2
35	Remove and Replace Furnace Fan Switch – All furnaces. (Bid per one)			2
Overall Bid Total				
PLEASE CHECK THAT YOU HAVE SUBMITTED A BID PRICE FOR <u>ALL</u> BID ITEMS IN THIS CATEGORY				

ATTACHMENT D #2 - HVAC (GAS) - SINGLE FAMILY DWELLINGS
Category B: GAS HVAC

Bidder Name:

Bid Response Instructions

1. Enter your Firm Name:
2. Enter your bid pricing in the two **Bid Price** columns - Labor and Material. The bid prices will automatically multiplied by the **Bid Units** to calculate the total bid price for each line item. The Bid Units are being used for the purpose of calculating the Bid Total, which is used to determine the lowest bidders. Bid Units are not an estimate of the work to be awarded. Contractors will be tied only to the line item **Bid Prices** submitted in the calculation of work orders.

NOTES:

1. Bid Packet is for **Single Family** and < 5 unit **Multi-Family** Dwellings. Bids are separated into categories by fuel source. You **must** fill out each bid item in each category of service that you are willing and capable to provide within a particular category to be considered responsive in that category.
 2. Must comply with Site Built and Manufactured Home Field Guide and Standards for the State of Oregon Weatherization Assistance Program.
 3. Installation Requirements: Contractor shall honor 2 year parts and labor warranty and all products and materials shall be formaldehyde free, installed per manufacturer's installation instructions and to code. All work must pass inspection prior to authorizing payment.
- * Each work item below shall include the cost of material and labor. In most case permits will be required to perform each work item. Bid prices included in this request must **NOT** include the cost of required permits. Copies of all necessary permits **MUST** be submitted to the County at the time of invoicing in order to receive reimbursement.

YOU MUST SUBMIT BID PRICES FOR ALL BID ITEMS IN THIS CATEGORY TO BE CONSIDERED RESPONSIVE

LINE ITEM #	LINE ITEM DETAIL	Bid Price: Labor	Bid Price: Material	Bid Units	Line Item Bid = (Bid Price Labor + Bid Price Material) x Bid Units
FURNACE COMPONENTS					
1	Furnish & Install Thermostat For Heating and Cooling Systems. (Bid per one) Install per manufacturer's installation instructions and to local code. *Replacement thermostats include electric, gas, oil and propane furnaces, heat pumps / air conditioners and electric baseboard or in wall electric heaters.			10	
2	Furnish & Install Thermostat Wiring For Heating and Cooling Systems. (Bid per one) 1. Install new thermostat wiring and locate to code.			7	
3	Furnish & Install Dedicated Circuit. (Bid per one) 1. Furnish and Install a dedicated circuit in an existing electric panel capable of handling the load of a new gas furnace, to code.			10	
4	Furnish & Install GFCI Protected Outlet with a Light Switch and Light. (Bid per one) 1. To be installed in crawl space or attic as required by local code.			3	
5	Furnish & Install Flue Pipe (B-vent) for Gas Appliance. (Bid per lineal foot) 1. Furnish and install double-wall pipe from appliance to chimney or appliance to outside.			100	
6	Furnish & Install Flue Pipe (Single Wall) for Gas Furnace. (Bid per lineal foot) 1. Furnish and install single-wall flue pipe from furnace to chimney.			10	
7	Install Additional Combustion Air up to Four (4) Grills in Appliance Enclosure. (Bid per set of four (4), two (2) on each side of the door) 1. This application will be applied when the space in which fuel-burning appliances are located and does not meet the criteria for indoor air. 2. One opening shall be within 12-inches of the bottom of the space and 12-inches from the ceiling. 3. Sizing of combustion air grills must meet local code in effect at the time the work in being performed.			15	
8	Install Outside Combustion Air to Appliance. (Bid per lineal foot) 1. Outside combustion air shall be supplied through ducts that are at least six (6) inches in diameter and 26 gauge metal, extending from the appliance room to the outdoors.			25	
9	Install Cross Over Duct in a Mobile Home 26 Gauge Metal Duct. (Bid per lineal foot) 1. Duct must be the same diameter as the supply ducts on each side of the mobile home.			48	
10	Add a Supply Duct 26 Gauge Metal Duct up to 8 Inches in Diameter. (Bid per lineal foot) 1. Install a new supply duct run to the room needed from the main trunk or plenum.			160	
11	Add a Cold Air Return 26 Gauge Metal Duct up to 14 Inches in Diameter. (Bid per lineal foot) 1. Install a new cold air return duct run to the room needed from the main cold air return trunk or plenum.			185	
12	Add or Replace a Supply Register up to 6 Inches x 14 Inches Made of Metal. (Bid per one) 1. New register must be screwed to the surface and have a damper. 2. New register must be white or brown.			20	
13	Add or Replace a Cold Air Return Register Up to 16 Inches x 24 Inches Made of Metal. (Bid per one) 1. New register must be screwed to the surface. 2. New register must be white or brown.			5	
14	Install a Filter Cabinet on Cold Air Return Side of the Furnace. (Bid per one) 1. Filter cabinet must be the same size as the cold air return. 2. Contractor must install the filter in the filter cabinet and leave two additional filters with the resident.			15	

15	<p>Remove the Cold Air Return Grill and Install a Filter Grill at the Cold Air Return Opening. (Bid per one)</p> <ol style="list-style-type: none"> 1. Filter grill must be the same size as the cold air return. 2. Contractor must install the filter in the filter grill and leave two additional filters with the resident. 3. Filter grill must be white or brown. 			15
16	<p>Time to Evaluate Dead Furnace and write up Scope of Work Proposal for Stick Built or Mobile Homes with Gas Furnaces. (Bid per one)</p> <ol style="list-style-type: none"> 1. Indicate what is needed to repair the furnace or indicate that the furnace needs to be replaced. 2. Minor repair work may be conducted at the time of the evaluation as long as the total cost (evaluation & repair) does not exceed \$500. 3. Fax or email written evaluation to the Weatherization Program within 24 hours of completing the evaluation or the next business day whichever one is sooner. 4. If repair work is over \$500.00, the contractor doing the evaluation may not receive the major repair or replacement work. 			66
17	<p>Respond to NO Heat Situation Within 18-24 Clock Hour Period. (Bid per one)</p> <ol style="list-style-type: none"> 1. Respond to NO heat situation within 18-24 hours of receiving the emailed work order from the Weatherization Program. 2. If the lowest bid contractor cannot respond within the 18-24 hour period the Weatherization Program reserves the right to go to the next lowest bidder. 3. If minor repair is \$500 or less, complete the repair at the time of the visit. 4. If repair exceeds \$500 contact the Weatherization Program for next steps. 5. If the furnace must be replaced and your company is the lowest bidder for that replacement item the Weatherization Program will approve the replacement at the bid price. 6. If your company is not the lowest bidder for the replacement item and the lowest bidder can install the furnace within 24-48 hours the Weatherization Program reserves the right to have the contractor bidding the lowest install the furnace. 			66
GAS FURNACES				
18	<p>Furnish and Install Energy Star 96% plus AFUE Gas Furnace up to 120,000 BTU (Bid per one)</p> <ol style="list-style-type: none"> 1. The installation must meet the manufacturer's Specifications. 2. This item shall include, but not be limited to, all equipment, electrical, venting and materials necessary 3. Install a filter cabinet on cold air return side of the furnace, provide 2 air filters, minimum MERV 6. 			50
19	<p>Furnish & Install 78% AFUE Wall Mounted Gas Furnace with Fan Switch (Exterior / Direct Vent). (Bid per one)</p> <ol style="list-style-type: none"> 1. The installation must meet the manufacturer's Specifications. 2. This item shall include, but not be limited to, all equipment and material necessary to install new furnace including the venting materials, and condensate pump when needed (including drainage). 3. Disposal of the old furnace in accordance with the rules and regulations of the State of Oregon. 			4
20	<p>Furnish & Install Energy Star Rated Direct Vent Gas Furnace. (Bid per one)</p> <ol style="list-style-type: none"> 1. The installation must meet the manufacturer's Specifications. 2. This item shall include all material and labor necessary to install new furnace to code. 			2
21	<p>Furnish & Install Gas Shutoff Valve for Furnace, Gas Stove and / or Gas Water Heater. (Bid per one)</p> <ol style="list-style-type: none"> 1. An accessible, code approved shutoff valve shall be installed in the fuel-gas piping outside of each appliance and ahead of the union connection thereto in addition to any valve provided on the appliance. 			2
22	<p>Natural Gas Boiler Tune Up – (Bid per one)</p>			2
23	<p>Perform Gas Furnace Tune-up. (Bid per one)</p> <ol style="list-style-type: none"> 1. Perform in accordance with specifications in Attachment ????. 			8
24	<p>Perform Gas Range Stove Tune-Up. (Bid per one complete unit)</p> <ol style="list-style-type: none"> 1. Clean burners. 2. Perform carbon monoxide test on oven and burners. 3. Check for burner operation, flame color and flame rollout. 4. Carbon Monoxide shall not exceed 200 PPM as measured or 800 ppm airfree in oven. 			15
25	<p>Furnish & Install Gas Range / Stove. (Bid per one)</p> <ol style="list-style-type: none"> 1. Install gas stove to manufacturer's specifications 			5
MISCELLANEOUS				
26	<p>Reduce fan speed on existing furnace. (Bid per one)</p> <ol style="list-style-type: none"> 1. Measure static pressure and heat rise after reducing fan speed (heat rise not to exceed manufacturer's recommendation after adjustment). 2. Document test results on invoice. 			3
27	<p>Add PVC Vent Pipe – per lineal foot supply and exhaust.</p> <ol style="list-style-type: none"> 1. Bid to include termination to outside and all connections. 			25

	2. Includes exhaust and supply air termination in excess of 18 inches from one another.			
28	Furnish and Install Condensate Pump. (Bid per one) 1. Bid to include all connections necessary for functional condensate system, including drainage.			8
29	Furnish and Install Heat Recovery Ventilation System (HRV). (Bid per system.) 1. Install in conjunction with existing duct system. 2. Build additional ductwork per appropriate bid item. 3. Bid shall include: a. All electrical connections. b. Pressure balancing; pressure in fresh air supply and return ducts during operation must be equal. 4. System shall operate in conjunction with furnace air handler. 5. Contractor shall determine appropriate size of HRV based on volume of home. 6. Document static pressure test in all four duct areas: furnace supply, furnace return, fresh air supply, fresh air return.			5
30	Furnish and Install Energy Recovery Ventilation System (ERV). (Bid per system) 1. Install in conjunction with existing duct system. 2. Build additional ductwork per appropriate bid item. 3. Bid shall include: a. All electrical connections. b. Pressure balancing; pressure in fresh air supply and return ducts during operation must be equal. 4. System shall operate in conjunction with furnace air handler. 5. Contractor shall determine appropriate size of ERV based on volume of home. 6. Document static pressure test in all four duct areas: furnace supply, furnace return, fresh air supply, fresh air return.			5
31	Remove and Replace High Limit Switch – All furnaces. Maximum temperature shall be no higher than 180 degrees. (Bid per one)			2
32	Remove and Replace Furnace Sequencer (Bid per one)			2
33	Remove and Replace Furnace Transformer (Bid per one)			2
34	Remove and Replace Furnace Fan Switch (Bid per one)			2

ATTACHMENT D #3 - HVAC (ELECTRIC) - SINGLE FAMILY DWELLINGS
Category A: ELECTRIC HVAC

Bidder Name:

Bid Response Instructions

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2. Must comply with *Site Built and Manufactured Home Field Guide and Standards for the State of Oregon Weatherization Assistance Program*.
3. Installation Requirements: Contractor shall honor 2 year parts and labor warranty and all products and materials shall be formaldehyde free, installed per manufacturer's installation instructions and to code. All work must pass inspection prior to authorizing payment.

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LINE ITEM #	LINE ITEM DETAIL	Bid Price: Labor	Bid Price: Material	Bid Units	Line Item Bid = (Bid Price Labor + Bid Price Material)xBid Units
1	Furnish & Install Sight-Impaired Thermostat For Heating and Cooling Systems. (Bid per one) 1. Remove old thermostat. 2. Furnish new sight-impaired thermostat for furnace. 3. Replacement thermostat shall meet or exceed original electrical and mechanical Specification. 4. Replace thermostat shall have a heat anticipator. 5. Thermostat shall be readable by the sight-impaired. A large digital readout is preferred. * Replacement thermostats include electric, gas, oil and propane furnaces, heat pumps / air conditioners and electric baseboard or in wall electric heaters.			10	
2	Furnish & Install Thermostat Wiring For Heating and Cooling Systems. (Bid per one) 1. Install new thermostat wiring to code. 2. New thermostat location must be code approved.			7	
3	Furnish & Install Dedicated Circuit. (Bid per one) 1. Furnish and Install a dedicated circuit in an existing electric panel capable of handling the load of a new heat pump, 115V service outlet 2. Bid shall include all materials and labor to install this circuit. Must include a permit from the local building enforcement jurisdiction.			6	
4	Furnish & Install GFCI Protected Outlet with a Light Switch and Light. (Bid per one) 1. To be installed in crawl space or attic as required by local code. 2. Bid shall include all materials and labor to install these items. 3. Must include a permit from the local building enforcement jurisdiction.			3	
5	Install Cross Over Duct in a Mobile Home 26 Gauge Metal Duct. (Bid per lineal foot) 1. Duct must be the same diameter as the output / supply ducts on each side of the mobile home.			48	
6	Add a Supply Duct 26 Gauge Metal Duct up to 8 Inches in Diameter. (Bid per lineal foot) 1. Install a new supply duct run to the room needed from the main trunk or plenum.			160	
7	Add a Cold Air Return 26 Gauge Metal Duct up to 14 Inches in Diameter. (Bid per lineal foot) 1. Install a new cold air return duct run to the room needed from the main cold air return trunk or plenum.			185	
8	Add or Replace a Supply Register up to 6 Inches x 14 Inches Made of Metal. (Bid per one) 1. New register must be screwed to the surface and have a damper. 2. New register must be white or brown. 3. New register must be installed to local mechanical code.			20	
9	Add or Replace a Cold Air Return Up to 16 Inches x 24 Inches Made of Metal. (Bid per one) 1. New return must be screwed to the surface. 2. New return must be white or brown. 3. New register must be installed to local mechanical code.			5	
10	Install a Filter Cabinet on Cold Air Return Side of the Furnace. (Bid per one) 1. Filter cabinet must be the same size as the cold air return. 2. Contractor must install the filter, minimum MERV 6 in the filter cabinet and leave two additional filters with the resident. 3. Filter cabinet must be installed to local mechanical code.			15	
11	Remove the Cold Air Return Grill and Install a Filter Grill at the Cold Air Return Opening. (Bid per one) 1. Filter grill must be the same size as the cold air return. 2. Contractor must install the filter in the filter grill and leave two additional filters with the resident. 3. Filter grill must be white or brown. 4. Filter grill must be installed to local mechanical code.			15	

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HEATING AND RELATED SPECIALTY MEASURES ON A REQUIREMENTS BASIS

12	<p>Time to Evaluate Dead Furnace and write up Scope of Work Proposal for Stick Built or Mobile Homes with Electric Furnaces and Heat Pumps. (Bid per one)</p> <ol style="list-style-type: none"> 1. Indicate what is needed to repair the furnace or indicate that the furnace needs to be replaced. 2. Repair work may be conducted at the time of the evaluation as long as the total cost does not exceed \$500. Repair work must be installed to local mechanical code. 3. Fax or email the evaluation to the Weatherization Program within 24 hours of completing the evaluation or the next business day whichever one is sooner. 4. Note: The contractor doing the evaluation may not receive the repair or replacement work unless the repair work is less than \$500. 	66
13	<p>Respond to NO Heat Situation Within 18-24 Clock Hour Period. (Bid per one)</p> <ol style="list-style-type: none"> 1. Respond to NO heat situation within 18-24 hours of receiving the fax work order from the Weatherization Program. 2. If the lowest bid contractor cannot respond within the 18-24 hour period the Weatherization Program reserves the right to go to the next lowest bidder. 3. If repair is \$500 or less, complete the repair at the time of the visit. 4. If repair exceeds \$500 call the Weatherization Program for approval. 5. If the furnace must be replaced and your company is the lowest bidder for that replacement item the Weatherization Program will approve the replacement at the bid price. 6. If your company is not the lowest bidder for the replacement item and the lowest bidder can install the furnace within 24-48 hours the Weatherization Program reserves the right to have the contractor bidding the lowest install the furnace. 	66
14	<p>Electrical Furnace Tune-Up. (Bid per one)</p> <ol style="list-style-type: none"> 1. Materials used shall meet or exceed Original Equipment Manufacture (OEM) specifications. 2. Inspect blower belt for wear and tension, replace as needed. 3. Oil blower motor and clean fan blades. 4. Check thermostat operation and set heat anticipator if needed. 5. Inspect wiring for frayed or burnt wiring and loose connection. 6. Test continuity for each element circuit component. 7. Check sequencer and control systems for proper operation. 8. Report findings to the Weatherization Program. 	4
15	<p>Air Conditioner/Heat Pump Tune-Up. (Bid per one)</p> <ol style="list-style-type: none"> 1. Materials used shall meet or exceed Original Equipment Manufacture (OEM). 2. Inspect blower belt for wear and tension, replace if needed. 3. Oil blower motor and clean fan blades. 4. Clean A coil and fins, provide 2 filters. 5. Check thermostat operation and set heat anticipator if needed. 6. Test continuity for each element circuit component, if electric back up system. 7. Check sequencer and control systems for proper operation. 8. Check refrigerant pressure and charge if necessary. 9. Conduct a static pressure test. 10. Report findings to the Weatherization Program. 	20
16	<p>Remove and Replace Existing Outdoor Heat Pump Unit, with a new Heat Pump unit up to 2.5 Tons. (Bid per one)</p> <p>Efficiency rating is defined in the most recently published GAMA Efficiency Certification Book</p> <ol style="list-style-type: none"> 1. The installation must meet the manufacturer's specifications, and meet local mechanical codes 2. Conduct a static pressure test and report finding to the Weatherization Program. 3. New installation shall include new matching indoor air handler unit. 4. Indoor A coil, TXV valve. 5. 10 KW back up heat strips. 6. Insulated refrigerant lines. 7. New 115V and 230V if needed. 8. Permits for installation are required. 9. Contractor must submit proof of mechanical permit with invoice in order to receive payment. 10. Make sure back up heat source is operational prior to leaving job site. 11. Include all parts and labor required to attach new heat pump to existing refrigerant lines. 12. Removal of old system and Freon capture is included in price when removing and installing new HP 13. Seal plenum with mastic when installing new HP, 14. Must Provide AHRI certificate with invoice. <p style="text-align: center;">NOTE: The appliance vendor/contractor recovering the refrigerant must possess CFC certification by EPA-approved section 608 Type I, or universal certification</p>	2
17	<p>New Heat Pump Install - Line Items 17a to 17d MUST include the Following Items:</p> <ol style="list-style-type: none"> 1. Install must meet manufacturer's specifications. 2. Minimum HSPF 9.5 EER 12.5 or higher. 3. New installation shall include new indoor air handler unit and two air filters. 4. Indoor A coil, insulated refrigerant lines, and outdoor coil. 5. TXV valve 6. UL listed. 7. Install outdoor thermostat w/ 40 degree auxiliary heat lockout and Indoor Thermostat Programmable such as LUX DMH 110 or equivalent. 	

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	<p>8. 10KW back up heat strip.</p> <p>9. Make sure back up heat source is operational prior to leaving job site.</p> <p>10. Removal and disposal of old system.</p> <p>11. All electrical connections including new 115V and 230V dedicated circuits.</p> <p>12. Seal connection to plenum with mastic when installing new system.</p> <p>13. Must Provide AHRI certificate with invoice.</p>				
	17a. New Heat Pump Install at 1.5 Tons. (Bid per one)				50
	17b. New Heat Pump Install at 2.0 Tons. (Bid per one)				40
	17c. New Heat Pump Install at 2.5 Tons. (Bid per one)				10
	17d. New Heat Pump Install at 3.0 Tons. (Bid per one)				5
18	<p>Ductless Heat Pumps Models - Line Items 18a to 18d MUST Meet the following specifications:</p> <p>Have variable speed compressor (“inverter technology”) – providing more efficient operation to match the heating/cooling needs of the house under a variety of weather conditions. Be listed in the AHRI directory and provide at least 50 percent of rated capacity efficient operation when outside air is 17° F. and have no built-in electric resistance heat.</p> <p>(Bid per one head) Daikin or Mitsubishi System or equivalent.</p> <ol style="list-style-type: none"> 1. Appliance must have a HSPF of as indicated per line item. 2. Bid to include the following: <ol style="list-style-type: none"> a. All refrigerant lines to each indoor head/unit. b. Complete charge of refrigerant lines. c. Line set cover to be included with the installation d. All electrical permits by the governing body must be included with the invoice. e. All necessary electrical dedicated circuits’ 115V service outlet and 230V dedicated circuit. f. Level pad installed under unit. g. Installation of indoor head in largest room in home (e.g. living room), including material required for wall mount, cutting/patching wall board, flashing, caulk, etc. h. Installation of condensate system, including all drainage, and pump if needed. 				
	18a. Install Ductless Mini-Split Heat Pump System – 1.5 Ton Outdoor Unit, minimum 11.0 HSPF (Bid per one head)				20
	18b. Install Ductless Mini-Split Heat Pump System – 2.0 Ton Outdoor Unit, minimum 10.0 HSPF (Bid per one head)				15
	18c. Install Ductless Mini-Split Heat Pump System – 2.5 Ton Outdoor Unit, minimum 9.0 HSPF (Bid per one head)				10
	18d. Install Ductless Mini-Split Heat Pump System – 3.0 Ton Outdoor Unit, minimum 9.0 HSPF (Bid per one head)				3
19	<p>Install Ductless Mini-Split Heat Pump System—Each Additional Head. (Bid per head)</p> <p>Bid to Include:</p> <ol style="list-style-type: none"> a. All refrigerant lines. b. Line set cover c. All necessary electrical connections and dedicated circuits. d. Material required for wall mount, cutting/patching wall board, flashing, caulk, etc e. Installation of condensate system, including all drainage and pump if needed. 				
20	<p>Perform & Record Heat Rise Test on Furnace. (Bid per test)</p> <ol style="list-style-type: none"> 1. Test shall be performed by taking one reading on the supply air. 2. A second test reading shall be performed on the return air. 3. With the two readings, a heat rise test will be compared to that recommended by the furnace manufacturer and the furnace fan shall be adjusted accordingly. 4. Test results with any corrective measures taken shall be submitted with the invoice to the Weatherization Program. 				
21	<p>Perform & Record Static Pressure. (Bid per one)</p> <p>Perform a static pressure test, make necessary corrections and report the findings to the Weatherization Program in either inches of water/column or pascals</p>				
22	<p>Air Balance a Forced Air HVAC System Using a Flow Hood. (Bid per one)</p> <ol style="list-style-type: none"> 1. Air Balance a Forced Air HVAC system using a Flow Hood. 2. Conduct the pre and post tests and make adjustments as necessary and record on a data form. The completed pre and post data must be completed on a separate document and attached to the contractor’s invoice. 				
23	Remove and Replace ‘A’ Coil; heat pumps. (Bid per one)				
24	Install outdoor thermostat on existing heat pump. (Bid per one)				
25	<p>Install programmable thermostat (as option for all furnace types). (Bid per one)</p> <ol style="list-style-type: none"> 1. For electric heat pumps use such as LUX DMH 110 or equivalent with the following settings, 0 degree- compressor lockout, 35 degree-auxiliary heat lockout, 0-extended fan time heating, 90-extended fan time cooling. 				
26	Install a Programmable Hard wired T-Stat for mini splits (Bid per one)				
27	<p>Reduce fan speed on existing furnace. (Bid per one)</p> <ol style="list-style-type: none"> 1. Measure static pressure and heat rise after reducing fan speed (heat rise not to exceed manufacturer’s recommendation after adjustment). 2. Document test results on invoice. 				

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28	Furnish and Install Condensate Pump. (Bid per one) 1. Bid to include all connections necessary for functional condensate system, including drainage.			8	
29	Furnish and Install Heat Recovery Ventilation System (HRV). (Bid per system.) 1. Install in conjunction with existing duct system. 2. Build additional ductwork per appropriate bid item. 3. Bid shall include: a. All electrical connections. b. Pressure balancing; pressure in fresh air supply and return ducts during operation must be equal. 4. System shall operate in conjunction with furnace air handler. 5. Contractor shall determine appropriate size of HRV based on volume of home. 6. Document static pressure test in all four duct areas: furnace supply, furnace return, fresh air supply, fresh air return.			5	
30	Furnish and Install Energy Recovery Ventilation System (ERV). (Bid per system) 1. Install in conjunction with existing duct system. 2. Build additional ductwork per appropriate bid item. 3. Bid shall include: a. All electrical connections. b. Pressure balancing; pressure in fresh air supply and return ducts during operation must be equal. 4. System shall operate in conjunction with furnace air handler. 5. Contractor shall determine appropriate size of ERV based on volume of home. 6. Document static pressure test in all four duct areas: furnace supply, furnace return, fresh air supply, fresh air return.			5	
31	Remove and Replace Element on Electric Furnace. (Bid per element)			2	
32	Remove and Replace High Limit Switch – All furnaces. Maximum temperature shall be no higher than 180 degrees. (Bid per one)			2	
33	Remove and Replace Furnace Sequencer – Electric Furnaces. (Bid per one)			2	
34	Remove and Replace Furnace Transformer – All furnaces. (Bid per one)			2	
35	Remove and Replace Furnace Fan Switch – All furnaces. (Bid per one)			2	
Overall Bid Total					
PLEASE CHECK THAT YOU HAVE SUBMITTED A BID PRICE FOR ALL BID ITEMS IN THIS CATEGORY					