

BoB / BoA

**ATHENS UTILITY BOARD
OOSTANAULA WASTEWATER TREATMENT PLANT MODIFICATIONS
ATHENS, TENNESSEE**

Bidder acknowledges receipt of the following addenda:

No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____
No. _____	Dated _____	No. _____	Dated _____

PART 1: SUPPLEMENTAL INSTRUCTIONS TO BIDDERS

Items "A" through "H" and Items "N", "R", and "S" are major equipment items. Each bidder is required as a minimum to furnish a bid on at least one of the designated base bid brands for each division.

The standard equipment of any brand listed in this Form of Proposal may not meet the exact requirements of the Drawings and Specifications without some modifications. It is the Bidder's responsibility to assure that any listed brand being quoted will be able to meet the requirements of the Drawings and Specifications at the price quoted. There may be brands not listed herein which are acceptable. Bidders can use the blank spaces provided to list and quote any brand that the bidder considers able to meet the requirements of the Drawings and Specifications.

Final comparison of total bids and selection of the lowest responsible bidder will be made on the basis of lowest base bid prices. After selection of the low responsible bidder, the Owner shall have the option to substitute alternate brands at the price listed for such brands in the low responsible bidder's proposal.

If required, the successful Contractor shall be prepared to submit to the A/E, drawings, descriptive data, and specifications on the proposed equipment of any listed alternate manufacturer within 14 days after the Bid opening date to permit the Owner and the A/E's evaluation of the equipment.

The approval of an alternate or use of a listed manufacturer will not eliminate the requirement for equipment submittal data and drawings for approval or the requirement that the manufacturer meet or exceed the performance standards of the technical specifications.

PART 2: MAJOR FACILITY COMPONENTS/WORK

All major equipment items listed below shall be bid according to the following:

The bidder must include in the Part 2 Subtotal lump sum costs, one of the named Base Bid Manufacturers/Suppliers in this listing of Major Facility Components/Work. In part 3, the Bidder

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must circle one of the named Base Bid Manufacturers/Suppliers, indicating which Manufacturer/Supplier the Contractor's Bid is based on. Should a Bidder fail to indicate which manufacturer or supplier is his Base Bid selection, or circles more than one listed manufacturer/supplier per item, the OWNER reserves the right to select the preferred manufacturer which the Bidder shall provide at no increase in the Contract amount. Changes by the Bidder to items listed in the Major Equipment Schedule will not be considered after receipt of Bids.

In Part 3, the BIDDER may furnish the name of a substitute manufacturer and deductive price for consideration for use on the project. Additional instructions are provided in Part 3.

Equipment	Manufacturer	Lump Sum Item Installed Cost
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DIVISION "A" - RENOVATE EXISTING INFLUENT PUMP STATIONS

For furnishing and installing new pump/motor assemblies, instrumentation, and controls indicated and as specified in Section 11245, complete with all pipework, valve, miscellaneous electrical, HVAC, and structural modifications indicated and specified.

\$ _____

DIVISION "B" - NEW HEADWORKS FACILITY

For furnishing and installing two (2) Rotary Fine Screen assemblies, one (1) Screenings Compactor, Two (2) Aerated Grit/Grease assemblies, control panels, and required accessories indicated and specified in Sections 11290 and 11281, complete with all pipework, valves, electrical, structural requirements, miscellaneous metals, water heater and hot box equipment, etc., indicated and specified.

\$ _____

DIVISION "C" - NEW OXIDATION DITCH LIQUID MOTIVE PUMPS

For furnishing and installing new oxidation ditch liquid motive pumps and diffuser systems, controls interface and required accessories indicated and specified in Section 11335 in two (2) new multiple channel circular aeration basins, complete with all pipework, valves and isolation devices, electrical, structural requirements, miscellaneous metals, etc. indicated and specified.

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DIVISION "D" - NEW FINAL CLARIFIERS

For furnishing and installing new clarifier equipment, controls, and required accessories indicated and specified in Section 11313 for the two alternative base bid manufacturers in four (4) new 80 foot diameter Clarifier structures, with integral Splitter Distribution Box and RAS/WAS Pump Room, complete with pump/motor assemblies as specified in Section 11246, pipework, valves and isolation devices, electrical, structural requirements, miscellaneous metals, etc., indicated and specified.

\$ _____

DIVISION "E" - TERTIARY EFFLUENT FILTRATION/UV DISINFECTION FACILITY

For furnishing and installing new Effluent Filtration and UV Disinfection equipment, controls, and required accessories indicated and specified in Section 11371 for the filtration equipment and in Section 11350 for the two alternative base bid UV disinfection manufacturers in the renovated chlorine contact basin, complete with all pipework, valves and isolation devices, electrical, structural renovation requirements, stainless steel channels and pullboxes, miscellaneous metals, etc., indicated and specified.

\$ _____

DIVISION "F" - AERATION BLOWERS/INSTRUMENTATION FACILITY

For furnishing and installing new Oxidation Ditch and renovated Aerobic Digester process blower systems, pipework, instrumentation and controls, and required accessories as indicated and specified in Section 11293 in a new building, complete with all pipework, valves and instrumentation devices, electrical, structures, and building HVAC requirements, miscellaneous metals, etc. indicated and specified.

\$ _____

DIVISION "G" - NEW PLANT DRAIN PUMP STATION

For furnishing and installing two (2) submersible pump/motor assemblies, instrumentation, and controls indicated and specified in Section 11247, complete with new wetwell structure, pipework, valves, electrical, miscellaneous metals, etc., indicated and specified.

\$ _____

DIVISION "H" - NEW SOLIDS HANDLING FACILITY

For furnishing and installing one (1) new belt filter press, relocating an existing belt filter press, and one (1) new sludge dryer, sludge storage hopper and conveyance systems, all required

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instrumentation and controls, coagulant addition systems, accessories and pipework as indicated and specified in Sections 11351, 11358, and 11391 in a new building, complete with all pipework, valves and instrumentation devices, electrical, structure, building access and HVAC requirements, miscellaneous metals, etc. indicated and specified. Contractor is responsible for integration of new press controls with relocated press controls and equipment.

\$ _____

DIVISION "I" - RENOVATE EXISTING 50 FOOT DIAMETER CLARIFIER

Renovate two (2) existing 50 foot diameter clarifier to new Sludge Thickeners, function and modify structure as indicated and specified, complete with pipework, valves, equipment, electrical miscellaneous metals, etc.

\$ _____

DIVISION "J" - RENOVATE EXISTING AERATION BASINS

Renovate two (2) existing aeration basins to new Aerobic Digester function and modify structure as indicated and specified, complete with pipework, valves, equipment, electrical, miscellaneous metals, etc.

\$ _____

DIVISION "K" - RENOVATE EXISTING RAS/WAS PUMP STATION

Renovate existing concrete RAS/WAS pump station and pipework gallery to new Sludge Transfer Pump Station function and modify structure as indicated and specified, complete with pipework, valves, equipment, miscellaneous electrical, miscellaneous metals, etc.

\$ _____

DIVISION "L" - NEW ELECTRICAL BUILDING

For furnishing and installing new electrical equipment serving the Electrical Building, etc., as indicated and specified in Division 16, complete with conduits and wiring, structure and building HVAC requirements, etc.

\$ _____

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DIVISION "M" - NEW SITE ELECTRICAL IMPROVEMENTS

For furnishing and installing new site electrical service and lighting service conduits, wiring, pull boxes, ductbanks, remote motor control centers, etc., as indicated and specified in Division 16.

\$ _____

DIVISION "N" - NEW PLANT SCADA SYSTEM

For furnishing and installing new plant site SCADA system as indicated and specified in Section 16735 complete with all engineering, interface devices, equipment and software, wiring, speciality pull boxes as indicated and specified.

\$ _____

DIVISION "O" - SITEWORK

Furnish all equipment, materials, labor, etc. plant site tasks including, but not limited to, excavation, backfill, rock excavation, erosion/siltation control measures, dewatering, bypass pumping, gravity sanitary and storm sewer construction, force main construction, potable and nonpotable water construction, asphalt repair, new pavement and pavement overlay construction, fencing, etc. as indicated and as specified.

\$ _____

DIVISION "P" - DEMOLITION/SALVAGE

Demolish to the limits indicated and specified those existing structures which will interfere with construction of new unit processes or site improvement; and salvage and deliver equipment indicated and specified to a location designated by the Owner for the Owner's beneficial use. Additional Demolition Items are listed hereinafter under ADDITIVE ALTERNATES, EQUIPMENT DEMOLITION for items indicated on the Drawings. These Additive Demolition items are excluded under the DIVISION "P" work.

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DIVISION "Q" - MISCELLANEOUS BUILDING RENOVATION

Renovate buildings/structures indicated and specified for Owner's alternative use, including new electrical work, pipework, HVAC requirements, structure modifications, miscellaneous metals, etc.

\$ _____

DIVISION "R" - INSTRUMENTATION

Furnish and install instrumentation specified in Division 13 Specification Section 13600.

\$ _____

DIVISION "S" - ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS AND ELECTRICAL EQUIPMENT

Furnish and install new switchboard, motor control centers, distribution panelboards, motor starters, electrical disconnects, etc. as indicated and specified in Specification Sections 16140, 16160, 16180, 16440, 16442, and 16460. Include system studies as specified in Specification Section 16043 as part of the Electrical Equipment vendor's package.

\$ _____

DIVISION "T" - CONTRACTOR'S GENERAL CONTRACTUAL SERVICES

For furnishing and providing general services, including but not limited to, mobilization/demobilization, supervision, safety and security measures, facilities and controls, etc.

\$ _____

SUMMARY OF DIVISIONS AND TOTAL BASE BID

DIVISION "A" - RENOVATE EXISTING INFLUENT PUMP STATIONS	\$ _____
DIVISION "B" - NEW HEADWORKS FACILITY	\$ _____
DIVISION "C" - NEW JET AERATION OXIDATION DITCH	\$ _____
DIVISION "D" - NEW FINAL CLARIFIERS	\$ _____

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DIVISION "E" - TERTIARY EFFLUENT FILTRATION/UV DISINFECTION FACILITY	\$ _____
DIVISION "F" - AERATION BLOWERS/INSTRUMENTATION FACILITY	\$ _____
DIVISION "G" - NEW PLANT DRAIN PUMP STATION	\$ _____
DIVISION "H" - NEW SOLIDS HANDLING FACILITY	\$ _____
DIVISION "I" - RENOVATE EXISTING 50 FOOT DIAMETER CLARIFIER	\$ _____
DIVISION "J" - RENOVATE EXISTING AERATION BASINS	\$ _____
DIVISION "K" - RENOVATE EXISTING RAS/WAS PUMP STATION	\$ _____
DIVISION "L" - NEW ELECTRICAL BUILDING	\$ _____
DIVISION "M" - NEW SITE ELECTRICAL IMPROVEMENTS	\$ _____
DIVISION "N" - NEW PLANT SCADA SYSTEM	\$ _____
DIVISION "O" - SITEWORK	\$ _____
DIVISION "P" - DEMOLITION/SALVAGE	\$ _____
DIVISION "Q" - MISCELLANEOUS BUILDING RENOVATION	\$ _____
DIVISION "R" - INSTRUMENTATION	\$ _____
DIVISION "S" - ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS, AND ELECTRICAL EQUIPMENT	\$ _____
DIVISION "T" - CONTRACTOR'S GENERAL CONTRACTUAL SERVICES	\$ _____
TOTAL LUMP SUM BID (DIVISIONS A THROUGH R)	\$ _____

_____ Dollars

(words)

PART 3: BASE BID MANUFACTURERS/SUPPLIERS AND SUBSTITUTES

A list of the Base Bid Manufacturers/Suppliers is identified in the following Base Bid Manufacturer/Supplier Inventory.

The Bidder must circle one of the named Base Bid Manufacturers/Suppliers, indicating which Manufacturer/Supplier the Contractor's Bid is based on.

The Bidder may indicate a Substitute Manufacturer/Supplier for consideration by writing in the substitute and writing in the amount of deduct for the Substitute Manufacturer/Supplier. If an acceptable deduct is provided for substitute equipment and the equipment is accepted by the OWNER, the amount of deduct shall be accounted for by a change order after award of the contract by the OWNER.

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A substitute Manufacturer/Supplier will be deemed equal provided the proposed substitute is explicitly demonstrated by the Bidder to be equivalent to or better than the product named and described in the Specifications in form, function, performance, reliability, quality, and general configuration. Determination of equality in reference to the project design requirements will be made by the OWNER.

Design of this project is based upon the Base Bid Manufacturer's/Supplier's equipment indicated. Should a Bidder propose furnishing a substitute Manufacturer/Supplier, he shall comply with the following:

1. The Bidder shall include in his bid for such substitute Manufacturer/Supplier all additional CONSTRUCTION costs (mechanical, architectural, structural, electrical, and engineering redesign costs) associated with that substitute equipment, material, or supplier. The deductive bid for such substitute Manufacturer/Supplier shall also include the cost of any paid up licenses necessary for the use of the equipment if required by the manufacturer.
2. The Bidder shall reimburse the Engineer through the owner for any associated redesign and/or construction drawing revisions by any dimensional, mechanical, electrical, instrumentation, or structural deviations for use of the substitute equipment.

In order for the OWNER to determine if the proposed Manufacturer/Supplier substitute write-in, item shall be allowed, the information below shall be submitted with this bid form.

The following must be submitted with the bid:

1. A list of any and all deviations from the technical requirements of the Contract Documents.
2. Dimensional and weight information on components and assemblies.
3. Catalog information and cuts.
4. Manufacturer's specifications, including materials description and paint system.
5. Performance data and pump curves, as applicable.
6. Horsepower and electrical characteristics of all motors supplied.

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7. Outside utility requirements for each component, such as water, power, air, etc.
8. Functional description of any package instrumentation and control systems supplied.
9. List of parameters monitored, controlled, or alarmed.
10. Addresses and phone umbers of nearest service center and listing of the manufacturers or manufacturers representatives' services available at this location.
11. Addresses and phone numbers for the nearest parts warehouse capable of providing full parts regalement and/or repair service.
12. A list of the three most recent installations where similar equipment by the manufacturer or manufacturers' representative is currently in service; include contact name, telephone number, mailing address, and the names of the ENGINEER, OWNER, and installation contractor; if three installations do not exist, the list shall include all that do exist, if any.
13. Description of structural, electrical, mechanical, and all other changes or modifications necessary to adapt the equipment or system to the arrangement shown and/or functions described on the Drawings and in the Technical Specifications.
14. Any additional information requested by the OWNER.
15. Additional space requirements and/or accessories.
16. An estimation of time of delivery.

BASE BID MANUFACTURERS/SUPPLIERS INVENTORY:

Instructions:

1. BIDDER must circle which Manufacturer/Supplier is to be used, where options exist.
2. BIDDER may identify a substitute Manufacturer/Supplier for consideration and deductive price.

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Section Number	Process Description Base Bid Manufacturer	Elective Substitutes	Amount of Deduct for Substitute Manufacturer/Supplier
02641	Plug Valves Dezurik	_____	\$ _____
11202	Stainless Steel Weir Gates Hydro Gate Rodney Hunt Fontaine	_____	\$ _____
11245	Influent Pumps Fairbanks	_____	\$ _____
11246	RAS Pumps Gorman Rupp WAS Pumps Borger	_____ _____ _____	\$ _____ \$ _____ \$ _____
11247	Plant Drain Pump Station Flygt	_____	\$ _____
11281	Grit/Grease Removal Schreiber	_____	\$ _____
11290	Rotary Screen Equipment Hycor	_____	\$ _____
11313	Circular Clarifiers Westech Schreiber	_____	\$ _____
11335	Oxidation Ditch Pumps and Jet Aeration Equipment Fluidyne	_____	\$ _____

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Section Number	Process Description Base Bid Manufacturer	Elective Substitutes	Amount of Deduct for Substitute Manufacturer/Supplier
11350	UV Disinfection System Suntec Trogan	 _____	 \$ _____
11371	Tertiary Filter Aqua Aerobic	 _____	 \$ _____
11293	Blower System Turblex	 _____	 \$ _____
11351	Sludge Belt Press System Andritz	 _____	 \$ _____
11391	Sludge Drying System Fenton	 _____	 \$ _____
Division 16	Electrical Equipment Square D	 _____	 \$ _____
16735	Plant SCADA System Lord & Company	 _____	 \$ _____

PART 4: ALTERNATIVES

ADDITIVE ALTERNATES: Equipment Demolition

Demolish as indicated and specified those existing equipment items and structures noted as additive alternatives on the drawings and listed hereinafter

- | | |
|-----------------------------------|----------|
| 1. Anaerobic Digesters | \$ _____ |
| 2. Existing Steel Sand Filter | \$ _____ |
| 3. Lime Hopper & Conveyor System | \$ _____ |
| 4. Dewatered Sludge Transfer Shed | \$ _____ |

CONTRACTOR: _____