Invitation to Bid

WATER TREATMENT

Responses to an Invitation to Bid will be received by the Purchasing Supervisor, Sumner County Board of Education, 1500 Airport Road, Gallatin, TN 37066 for WATER TREATMENT until 9:00 a.m. CDT Tuesday, May 20, 2014. Bid responses will be opened at that time, taken under advisement and evaluated. Should you have any questions please call Chris Harrison, Purchasing Department at (615) 451-5255. All proposals are subject to the Board of Education's conditions and specifications which are available from Vicky Currey, Purchasing Supervisor (615) 451-6560. All bids can be viewed on line at www.sumnerschools.org.

NOTICE TO RESPONDENTS

Responses to an Invitation to Bid will be received by the Purchasing Supervisor in the SUPPORT SERVICE FACILITY CONFERENCE ROOM, Sumner County Board of Education, 1500 Airport Road Gallatin, TN 37066. They will be received until **9:00 A.M. Local Time TUESDAY, MAY 20, 2014** for **WATER TREATMENT**, at which time the responses will be opened, taken under advisement and evaluated. ***BIDS WILL BE POSTED ON www.sumnerschools.org***

GENERAL REQUIREMENTS AND CONDITIONS

1. The Sumner County Board of Education reserves the right to accept or reject any and/or all responses in whole or in part, and to waive informalities therein.

2. Any responses received after the scheduled closing time for the receipt for responses will not be considered.

3. If a mistake is discovered after the responses are received, only the Sumner County Board of Education may allow the respondent to withdraw the entire response.

4. Partial payments will not be approved unless justification for such payment can be shown. Terms will be net 30 days.

5. Payment will not be made until the said **WATER TREATMENT** are inspected and approved as meeting all specifications by persons appointed by the Sumner County Board of Education.

6. Responses submitted must be in a sealed envelope and marked on the outside as follows:
   RESPONSE: WATER TREATMENT
   DEADLINE: 9:00 A.M., TUESDAY, MAY 20, 2014

7. Facsimile responses will not be considered.

8. If a successful bidder violates any terms of their bid, the contract, school board policy or any law they may be disqualified from bidding for a period of two years for minor violations or longer for major violations. Bids from disqualified bidders will not be accepted during the period of disqualification.

9. Prices quoted on the response (if any) are to be considered firm and binding until the said **WATER TREATMENT** are in the possession of the Sumner County Board of Education.

10. No purchase or contract is authorized or valid until the issuance of a Board Purchase Order in accordance with Board Policy. No Board Employee is authorized to purchase equipment, supplies or services prior to the issuance of such a Purchase Order.

11. Any deviation from these stated terms, specifications and conditions must be coordinated with and approved in writing by the Purchasing Supervisor, Vicky Currey (615) 451-6560.

12. All bids that exceed $25,000 must have the Company Name, License Number, Expiration Date thereof and License Classification of Contractor listed on outside of sealed envelope. As required by State of Tennessee Code Annotated 62-6-119.

13. The awarded bidder will be required to post a performance and payment bond in the amount of 25% of the contract price if it exceeds $100,000 as stated by State of Tennessee Code Annotated 12-4-201.

14. If the project cost in excess of $25,000 a performance bond must be secured by the requesting party in an amount equal to the market improvement value.

	SCHOOL	TYPE OF SYSTEM
1	BEECH ELEMENTARY 3120 LONG HOLLOW PIKE HENDERSONVILLE, TN 37075	COOLING TOWER COMMON CLOSED LOOP
2	BEECH HIGH 3126 LONG HOLLOW PIKE HENDERSONVILLE, TN 37075	COOLING TOWER COMMON CLOSED LOOP
3	BETHPAGE ELEMENTARY 420 OLD HWY 31 BETHPAGE, TN 37022	COOLING TOWER COMMON CLOSED LOOP
4	BENNY BILLS ELEMENTARY 1030 UNION SCHOOL ROAD GALLATIN, TN 37066	GEO-THERMAL
5	SUMNER COUNTY BOARD OF EDUCATION CENTRAL OFFICE 695 EAST MAIN STREET GALLATIN, TN 37066	GEO-THERMAL
6	E.B. WILSON NIGHT SCHOOL 102 INDIAN LAKE ROAD HENDERSONVILLE, TN	HOT LOOP
7	ELLIS MIDDLE 100 INDIAN LAKE ROAD HENDERSONVILLE, TN 37075	CLOSED LOOP HOT LOOP
8	GALLATIN HIGH 700 DAN P. HERRON DRIVE GALLATIN, TN 37066	GEO-THERMAL
9	GEORGE WHITTEN ELEMENTARY 140 SCOTCH STREET HENDERSONVILLE, TN 37075	COOLING TOWER CHILLED LOOP HOT LOOP
10	GUILD ELEMENTARY 1018 SOUTH WATER AVENUE GALLATIN, TN 37066	COOLING TOWER COMMON CLOSED LOOP
11	HAWKINS MIDDLE 487-A WALTON FERRY ROAD HENDERSONVILLE, TN 37075	COOLING TOWER CLOSED LOOP
12	H.B. WILLIAMS ELEMENTARY 115 S. PALMER CHAPEL ROAD WHITE HOUSE, TN 37188	GEO-THERMAL

13	HENDERSONVILLE HIGH 123 CHEROKEE ROAD HENDERSONVILLE, TN 37075	CHILLED 1 CHILLED 2 HOT LOOP ICE BUILD SYSTEM
14	INDIAN LAKE ELEMENTARY 505 INDIAN LAKE ROAD HENDERSONVILLE, TN 37075	COOLING TOWER COMMON CLOSED LOOP
15	JACK ANDERSON ELEMENTARY 250 SHUTES LANE HENDERSONVILLE, TN 37075	COOLING TOWER COMMON CLOSED LOOP
16	KNOX DOSS MIDDLE @ DRAKES CREEK 1338 DRAKES CREEK ROAD HENDERSONVILLE, TN 37075	GEO-THERMAL
17	LAKESIDE PARK ELEMENTARY 204 DOLPHUS DRIVE HENDERSONVILLE, TN 37075	COOLING TOWER COMMON CLOSED LOOP
18	MADISON CREEK ELEMENTARY 1040 MADISON CREEK ROAD HENDERSONVILLE, TN37075	COOLING TOWER COMMON CLOSED LOOP
19	MERROL HYDE MAGNET 128 TOWNSHIP DRIVE HENDERSONVILLE, TN 37075	HOT LOOP CHILLED LOOP
20	MILLERSVILLE ELEMENTARY 1248 LOUISVILLE HIGHWAY GOODLETTSVILLE, TN 37072	COOLING TOWER COMMON CLOSED LOOP
21	NANNIE BERRY ELEMENTARY 138 INDIAN LAKE ROAD HENDERSONVILLE, TN 37075	GEO-THERMAL
22	PORTLAND GATEVIEW ELEMENTARY 1098 GATEVIEW DRIVE PORTLAND, TN 37148	GEO-THERMAL
23	PORTLAND EAST MIDDLE 604 SOUTH BROADWAY PORTLAND, TN 37148	HOT LOOP
24	PORTLAND WEST MIDDLE 110 NOLAN PRIVATE DRIVE PORTLAND, TN 37148	GEO-THERMAL
25	PORTLAND HIGH 600 COLLEGE STREET PORTLAND, TN 37148	GEO-THERMAL

26	R.T. FISHER ALTERNATIVE SCHOOL 455 NORTH BOYERS STREET GALLATIN, TN 37066	HOT LOOP
27	RUCKER STEWART MIDDLE 350 HANCOCK STREET GALLATIN, TN 37066	HOT LOOP CHILLED LOOP ICE BUILD SYSTEM
28	SHAFER MIDDLE 240 ALBERT GALLATIN BOULEVARD GALLATIN, TN 37066	COOLING TOWER COMMON CLOSED LOOP
29	STATION CAMP ELEMENTARY 1020 BISON TRAIL GALLATIN, TN 37066	GEO-THERMAL
30	STATION CAMP HIGH 1040 BISON TRAIL GALLATIN, TN 37066	GEO-THERMAL
31	STATION CAMP MIDDLE 281 BIG STATION CAMP BLVD. GALLATIN, TN 37066	GEO-THERMAL
32	T.W. HUNTER MIDDLE 3101 NEW HOPE ROAD HENDERSONVILLE, TN 37075	GEO-THERMAL
33	VENA STUART ELEMENTARY 780 HART STREET GALLATIN, TN 37066	COOLING TOWER COMMON CLOSED LOOP
34	WALTON FERRY ELEMENTARY 732 WALTON FERRY ROAD HENDERSONVILLE, TN 37075	COOLING TOWER BOILER CHILLED LOOP
35	WATT HARDISON ELEMENTARY 300 GIBSON STREET PORTLAND, TN 37148	COOLING TOWER CHILLED LOOP HOT LOOP
36	WESTMORELAND ELEMENTARY 4178 HAWKINS DRIVE WESTMORELAND, TN 37186	GEO-THERMAL
37	WESTMORELAND HIGH 4300 HAWKINS DRIVE WESTMORELAND, TN 37186	GEO-THERMAL
38	WESTMORELAND MIDDLE 4128 HAWKINS DRIVE WESTMORELAND, TN 37186	COOLING TOWER COMMON CLOSED LOOP

39	WHITE HOUSE HIGH 508 TYREE SPRINGS ROAD WHITE HOUSE, TN 37188	CHILLED LOOP HOT LOOP ICE BUILD SYSTEM
40	WHITE HOUSE HIGH (ANNEX) 111 MEADOWS ROAD WHITE HOUSE, TN 37188	COOLING TOWER COMMON CLOSED LOOP
41	WHITE HOUSE MIDDLE 2020 HWY 31W WHITE HOUSE, TN 37188	GEO-THERMAL

WATER TREATMENT

The Sumner County Board of Education, herein known as "School System", is soliciting bids to treat and maintain the water in cooling and heating units in the school system. There are two kinds of systems to be treated: Cooling Towers and Closed Loops (including geothermal systems). All chemicals must meet applicable EPA and OSHA guidelines. At present, there are forty-one (41) systems to be serviced.

Listed below are the specifications for the "total coverage" water treatment program.

Cooling Tower Control

A solid chemical treatment program for all tower systems shall provide corrosion, scale/deposit, and microbiological control.

Scale and Corrosion Control

Provide solid chemical treatment that includes phosphonates for scale and corrosion control, dispersants and crystal modifiers for scale and deposit control, and tolyltriazole for copper corrosion control.

All cooling towers will be modified in order to utilize solid treatment technology. The use of the required feeder boards and installation shall be included in the contract price. The feeder boards shall remain the property of the water treatment contractor and any maintenance required during the contract period shall also be included. The existing chemical feed pumps should be adequate to administer the solid treatment program. If new pumps are required, they shall be included in the contract price.

The chemical feedrate should supply the following parameters:

Total active phosphonate	2 - 4 ppm
Total active dispersant/crystal modifier	2 - 6 ppm
Tolyltriazole	0.5 - 1 ppm

Microbiological Control

Must meet all EPA and State of Tennessee standards with reference to concentrations in bleed-off water from system in which it is applied and must be labeled to meet all EPA requirements.

Personal safety is of major importance and the biocide program shall be automated on all cooling tower systems.

All cooling towers shall be modified to utilize a solid biocide program. The use of the required

feeder boards, pumps, and installation shall be included in the contract price. The feed equipment shall remain the property of the water treatment contractor and any maintenance required during the contract period shall also be included.

The automated solid biocide program shall use an oxidizing microbiocide to provide biological control.

The water treatment supplier must have the capability of testing for biological contamination and control. The supplier must also have the capability of running *Legionella* tests as required.

Bleedoff Control

Cycles of concentration are to be maintained within a range of 4.0 to 5.0 wherever possible.

Conductivity Control and Chemical Feed Equipment

All existing conductivity controllers and chemical feed pumps to be used unless deemed unrepairable.

The use of the required solid feeder boards for the cooling towers and installation shall be included in the contract price. The feeder boards shall remain the property of the water treatment contractor and any maintenance required during the contract period shall also be included.

The maintenance of all the control and feed equipment (including existing controllers and pumps) shall be included in the contract price. If equipment cannot be repaired, it shall be replaced. All repairs and replacements shall be included in the contract price (including controllers, solid feeders, pumps, and solenoid valves). Installation of the control and feed equipment and any required repairs or modifications to the bypass plumbing for this equipment shall also be included in the contract price.

Repairs or maintenance required on the systems themselves (cooling towers, heat exchangers, etc.) shall be done by School System maintenance personnel. Water treatment company shall notify School System of any required maintenance noticed during the service visits. (ex. Float adjustments, make up valves, pop off valves, etc.)

Closed Loop and Geothermal Water Systems

Corrosion Control

Provide a treatment program that uses nitrite/borate as the primary corrosion inhibitor with tolyltriazole for copper protection.

The sodium nitrite level must be maintained within 800 to 1500 ppm control range, with tolyltriazole present at 5 to 50 ppm. pH should be maintained in the range of 8.0 – 11.0.

Should a loop become contaminated with bacteria, provide biocide dosage until control is maintained.

Record water meter readings on systems equipped with makeup water meters and calculate water usage.

Required Supervisory Services

Service Frequency

Closed loops and geothermal systems will be serviced on a quarterly basis once treated to specifications. Cooling towers will be serviced monthly when in operation.

Services provided during each service call

- Conduct chemical tests on each system (treatment residuals, conductivity, etc.)
- Maintain treatment inventory, deliver treatment products to point of use, and add to systems as required.
- Check, calibrate and clean conductivity control and chemical feed equipment as required. Inspect equipment for cleanliness and proper operation.
- Provide service reports in electronic format listing test results
- Provide a method to store technical data and service reports in an electronic format for easy and efficient access by Sumner County school personnel.

- **Other Services**
  - Training seminars provided on location as often as need arises.
  - Deposit analysis and Total Bacteria counts as required to maintain clean heat exchange equipment.

Qualifications

- Primary business activity is water treatment and must have been in business for a minimum of five years with water treatment as primary business activity and live within 50 miles.
- Must have laboratory facility capable of running typical water and deposit analysis, corrosion coupon studies, and bacteria analysis.
- Must have at least one full time staff member who has a college degree in chemistry or a related technical degree whose primary function is technical support.
- Primary service representative must have at least 1 year experience in field service.
- Must have at least one back-up service representative who meets the same criteria as the primary representative.
- Service representatives must have State of Tennessee Pesticide Certification in Microbial Control.
- Provide resume for primary and back up representative as well as technical support staff with bid response.
- Provide copies of Tennessee Pesticide Certification cards for primary and back up representatives.

Terms

The bid will be valid for one year beginning July 1, 2014 thru June 30, 2015. The School System reserves the right to extend the contract for an additional four (4), 1-year terms. Vendors must notify the School System, no less than 60 days prior to contract expiration and in writing, of any cost increase.

The School System shall be invoiced monthly. Invoices are to be mailed to the following address:

Sumner County Board of Education
1500 Airport Road
Gallatin, TN 37066

Sumner County Board of Education

Purchasing Department
1500 Airport Road
Gallatin, TN 37066

COMPANY NAME _____

ADDRESS _____

_____

TELEPHONE _____

EMAIL _____

AUTHORIZED COMPANY REPRESENTATIVE _____*SIGNATURE*

AUTHORIZED COMPANY REPRESENTATIVE _____*PRINTED*

DATE _____

BID TITLE **WATER TREATMENT**

DEADLINE Tuesday, May 20, 2014 @ 9:00 a.m.

BID AMOUNT $_____ Monthly Payment

$_____ Yearly

Cost of five (5) gallons of solution to recharge drained loop (5 gal. of solution per 500 gal. of water) $_____

BID GOOD THRU _____

Name & Address of Laboratory: _____

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