



Bid Number 50 - 119337

One time purchase of three Roots EasyAir X2 DSL blowers & Triplex Control Panels for Jefferson Parish Sewerage Department.

April 27, 2017 AT 2:00 PM

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053
Donna Reamey
Dreamey@Jeffparish.net
504-364-2684**

DATE: 4/12/2017
BID NO.: 50-00119337

INVITATION TO BID
THIS IS NOT AN ORDER

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JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

BUYER: DREAMEY@jeffparish.net

BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 4/27/2017 AND PUBLICLY OPENED THEREAFTER.

For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only. All bids will be publicly opened at the West Bank location.

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting www.jeffparishbids.net to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing and fax them to the Purchasing Department at (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests. Questions may also be emailed to the buyer for this bid at the email address listed above. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

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JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

PROTESTS: Only those vendors that submitted a bid in response to this solicitation may submit a protest in writing to the Director of the Purchasing within 48 hours of bid opening. The Purchasing Director will review it in connection with the Parish Attorney's Office which will then respond in writing as soon as possible.

PREFERENCE: Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA – R.S. 38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

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Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

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PRE-BID CONFERENCE TO BE HELD AT: MARRERO WASTEWATER PLANT, 6250 LAPALCO
MARRERO, @ 10:00AM
ON 4/20/2017

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. Unless otherwise stated in the bid specifications, the successful bidder will be required to procure standard insurance policies evidencing Parish-mandated insurance requirements as indicated on the attached "insurance requirements" sheet. All bidders must comply with the instructions in this sheet. Failure to comply will cause bid to be rejected.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session – Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF _____.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

8-10 Wks After Release

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

N/A

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Gulf States Engineering Co., Inc

ADDRESS: 17961 Painters Row

CITY, STATE: Covington, LA ZIP: 70435

TELEPHONE: (985) 327-6044 FAX: (985) 893-5484

EMAIL ADDRESS: jgibson@gsenr.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: Addendum #1
NUMBER: _____
NUMBER: _____
NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 53,829.00

AUTHORIZED SIGNATURE: [Signature]

James Gibson

Printed Name

TITLE: Applications Engineer

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

Bid # 50-119337
SPECIFICATIONS FOR JEFFERSON PARISH DEPT. OF SEWERAGE
MARRERO WASTEWATER TREATMENT PLANT
ROOTS™ EasyAir®X2 STANDARD FACTORY DESIGNED PACKAGE
UNIVERSAL RAI® DSL BLOWERS

Pre-bid Meeting:

All prospective bidders are invited to attend this non-mandatory pre-bid conference which will be held at the Marrero Wastewater Treatment Plant, 6250 Lapalco Boulevard, Marrero, LA 70072, on April 20, 2017, 2017 at 10:00 AM. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.

Part I – GENERAL

1.01

- A: The manufacturer's distributor shall furnish, test, and commission the supplied units, EasyAir®X2 blower package with a Universal RAI® DSL frame size 56 two lobe rotary positive displacement air blower(s) as manufactured by Howden Roots, or approved equal.
- B: All equipment specified in this section shall be designed and furnished by the blower manufacturer, Howden Roots, who shall be responsible for the suitability and compatibility of all included equipment.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A: Division 1 (all sections)
- B: Equipment general provisions.
- C: Acoustical insulation for air piping.
- D: Electric motors.
- E: Starters for main drive motors.
- F: Instrumentation.

1.03 MANUFACTURER

- A: The ROOTS™ blower/motor assemblies, or approved equal; all accessories, controls, and other accessories shall be supplied by a single manufacturer who is fully experienced, reputable, and qualified in the supply of the equipment specified.

1.04 SUBMITTALS and O & M MANUALS

- A: Submittals shall be provided prior to construction and shall include, but not be limited to the following:
- 1: Package data sheet.
 - 2: Blower data sheet.
 - 3: V-belt drive data.
 - 4: General arrangement drawing.
 - 5: Motor data sheet.
 - 6: PRV sizing data sheet.
 - 7: Instrumentation data sheets.

1.05 START-UP AND TRAINING

- A: The manufacturer or their representative shall furnish experienced start-up/service personnel to inspect the final installation and, if needed, supervise the field start-up of the equipment.

PART 2 -- PRODUCTS

2.01 CONFIGURATION

The air blower(s) shall be of the two lobe rotary positive displacement type, and shall be constructed with inlet and discharge connections oriented as shown on the drawings. Each blower shall be equipped with detachable rugged steel mounting feet for mounting in horizontal configuration.

2.02 DESIGN CONDITIONS

- Minimum inlet volume 384 ACFM (at blower inlet connection) +/-5%.
- Inlet temperature 100 degrees Fahrenheit
- Relative humidity 80%
- Barometer 14.7 PSIA
- Inlet pressure 14.7 PSIA (at blower inlet connection)
- Discharge pressure 23.8 PSIA (at blower discharge connection)
- Maximum rated pressure rise 9.5 PSI
- Maximum blower speed 2188 RPM
- Maximum BHP at blower shaft 21
- Minimum motor HP 25
- Maximum discharge temperature 230 degrees Fahrenheit

- Maximum free field noise level 76 dba at 1 meter with noise enclosure

2.03 CONSTRUCTION

- A: Casing: The blower casing shall be one piece, with separate head plates, and shall be made of ASTM A48 Class 30B close-grained cast iron. Each head plate shall incorporate a vent to atmosphere. In a pressure application this vent prevents pressurization of the oil chambers. In a vacuum application the vent prevents potential oil carry over to the air stream.
- B: Impellers: Each impeller shall be made from high-strength cast iron, ASTM A48 Class 30B. The impellers shall be of the straight, two-lobe involute type, and shall operate without rubbing, liquid seals, or lubrication. The assembly shall be dynamically balanced by removing metal from the impeller body, and shall be center-timed to permit rotation in either direction.
- C: Shafts: The blower shafts shall be ASTM 108-90 and 311-90 or equal. The shafts shall be pressed through the impeller body with an interference fit, and pinned in place.
- D: Bearings: Each impeller and shaft assembly shall be supported by oversized anti-friction bearings, engineered for long service life and fixed to control the axial location of the impeller/shaft in the unit. A cylindrical roller bearing shall be provided at the drive shaft, designed to handle the load of v-belt drive, while single-row ball bearings shall be used at all other locations.
- E: Timing Gears: The impellers shall be timed by a pair of SAE 8620 carburized and ground steel spur gears. The gears shall be hardened to 58-62 Rockwell hardness and mounted on the shafts with a tapered fit, and secured by a locknut.
- F: Fasteners: High strength fasteners shall be used
- G: Lubrication: Each bearing housing shall include a positive radial lip type Viton oil seal. A Buna N lip seal shall be installed on the drive end of the drive shaft. The drive end bearings shall be splash oil lubricated. The timing gears and the gear end bearings shall be lubricated by splash from the gears dipping into the oil.
- H: The blower will be a ROOTS™ UNIVERSAL RA1[®]-DSL as manufactured by Howden Roots, or approved equal.

2.04 INLET FILTER/SILENCER

System shall include an inlet filter silencer for pressure applications. An inlet flexible connector with clamps shall be used to mount the inlet filter silencer to the blower inlet connection. The inlet filter silencer shall be carbon steel with paper filter elements. Inlet filters shall have front access for element access. Filter shall provide 99% removal efficiency of 2 micron particle size and larger. Vacuum filters, if required, to be installed inside of the noise enclosure. Howden Roots shall supply the inlet filter silencer.

2.05 COMBINATION BASE

Base shall have combination type discharge silencer. A discharge flexible connector with clamps shall be used between the blower discharge connection and the discharge silencer inlet connection. The base/discharge silencer shall be manufactured using carbon steel, have plain pipe stub connections and incorporate an oil pan in the design. The base/discharge silencer will have connections for a pressure relief valve, pressure gauge, discharge temperature gauge, mechanical unloading valve, and ½ inch drain built into the silencer. Packed/absorptive type silencers will not be accepted. The base/discharge silencer will be supplied by Howden Roots. Vacuum filters, if required, to be installed outside of the noise enclosure. Howden Roots shall supply the inlet filter silencer.

2.06 DRIVE SYSTEM

A v-belt drive will be provided. The v-belt drive system must incorporate a ROOTS™ v-belt tension system, or approved equal. The belt tension device must be designed to allow maintenance personnel to replace the belts without exerting or lifting over 40 pounds (OSHA Limitation) without the use of lifting, jacking, or pulling tools. A minimum service factor of 1.4 shall be applied on all v-belt systems. Drive selection calculations program shall be supplied to verify 1.4 minimum drive service factor. For v-belt drives with more than two belts, banded belts are required. Drive shall be selected to insure overhung load limits of motor and blower is not exceeded.

2.07 BELT GUARD

Guard shall be designed into the noise enclosure and meet OSHA standards.

2.08 DRIVE MOTOR

The motor shall be sized for appropriate horsepower, RPM, and other appropriate electrical characteristics determined for the application. The brake horsepower requirement with relief valve fully open shall not exceed the motor nameplate horsepower. Motors operating in the service factor at design and/or relief setting will not be accepted. Motors to be horizontal foot mounted ball bearings, heavy-duty steel, or cast iron frame, gasketed conduit boxes, and manufactured to NEMA or IP standards. Motors shall be as manufactured by Baldor, or approved equal. IEC motors will not be accepted.

- Motor Horsepower 25.
- Motor RPM 1800.
- Motor Type TEFC.
- Motor Electrical 3 Phase, 60 Hertz, 230-460 or 460V only.
- Motor Service Factor 1.15.
- Motor Full Load Efficiency per NEMA Premium standards.

2.09 STANDARD ACCESSORIES

- A: Oil fill container with a blower oil drain manifold.
- B: The blower package shall include pressure/vacuum gauges on either the suction or discharge of the blower. Gauges shall be mounted on the noise enclosure. All gauges shall be supplied by Howden Roots, as manufactured by Ashcroft model 1009SW, with 2.5 inch dial.
- C: The blower package will include a discharge temperature gauge mounted on the noise enclosure. The discharge temperature gauge shall be supplied by Howden Roots, as manufactured by Weiss model 25UB3-5131 with 2.5 inch dial.
- D: Blower package shall include an inlet filter differential pressure gauge mounted on the noise enclosure to indicate filter change requirement. The inlet filter gauge shall be supplied by Howden Roots, as manufactured by Dwyer model 2-5040 Minihelic II with 2.5 inch dial.
- E: A spring type large nozzle design bronze relief valve shall be included. The relief valve shall be mounted in the discharge silencer for pressure applications, and in the suction piping on blowers for vacuum application. The relief valve shall be supplied by Howden Roots, as manufactured by Kunkle model 337 for pressure service and 215V for vacuum service.
- F: Check valves shall be supplied for pressure and vacuum applications. The check valve shall have plain end connections for 5 inch diameter and below. 6 inch through 10 inch diameters are MNPT, and 12 inch diameter will be wafer. Check valve shall be split disc type, and valve body shall be cast iron or carbon steel, with silicone seal. Check valve ratings shall be 200 PSIG and 500 degrees Fahrenheit. The blower manufacturer must insure the valve is suitable for the application. Check valve to be supplied by Howden Roots, as manufactured by Flexi-Hinge.
- G: Vibration mounts shall be supplied and capable of leveling the blower package, to insure proper oil level, and to increase service and longevity of the equipment. Vibration mounts to be supplied by Howden Roots. The blower manufacturer must insure proper selection for the specific blower system offered.
- H: An 85 dBA or less free field guaranteed noise enclosure should be provided for each blower system. The enclosure outer material must be zinc coated steel with a surface preparation and paint as follows: Powder coat with texture finish 40-100 microns (65 microns average) RAL 5015 blue powder coat process to be proven to pass 500 hour salt spray test satisfactory with no rust evidence. The enclosure must be suitable for outdoor installation, 20 lb per square foot snow load and 70 MPH wind speed. The enclosure shall include a vent system and (3) removable panels for easy access and maintenance. The ventilation fan shall be mounted on blower drive shaft. Separately wired electric enclosure fans will not be accepted. The noise enclosure shall be provided with 1 inch foam, and the foam shall comply with UL94-HF 1 for flammability. The noise enclosure to be supplied by Howden Roots.

2.10 OPTIONAL ACCESSORIES

- A: For outdoor installation, the enclosure shall incorporate inlet and discharge weather hoods.

PART 3 EQUIPMENT

- 3.1 All equipment will be factory painted in accordance with the manufacturer's standard procedures.
- 3.2 Jefferson Parish Department of Sewerage personnel will install specified equipment, in accordance with manufacturer's recommendations.

PART 4 WARRANTIES AND SERVICE

- 4.1 The Manufacturer shall have an authorized factory service center capable of completely servicing the proposed equipment available to Jefferson Parish.

4.2 Warranties

Applicable Series or Model	Designation or Gear Diameter	Warranty period months from date of original unit start-up / months from date of original shipment, whichever occurs first.		
Bare Shaft Unit				
URAI [®] & URAI-J [®] <i>Including DSL</i>	2½ - 7-inch			24 / 30
RAM [™] & RAM-J [™] Tri-RAM [™]	4½ - 6-inch			24 / 30
Tri-RAM [™]	7 & 8-inch			24 / 30
RAM-X	155, 225, 280, 400 & 500			24 / 30
RAM-X	600, 770, 800 & 1000	12 / 18		
RCS & RCS-J	7 & 8 inch	12 / 18		
Standard Factory Package (Note that Bare Shaft Blower is covered separately above. Explicitly not included in Standard Factory Package warranty are drive belts, filter elements, hoses & fittings, gauges & switches)				
EasyAir [®] 8000	All sizes		18/24	
EasyAir [®] X2	50, 65, 100, 150 & 200		18/24	
EasyAir [®] X2	250 & 300		18/24	

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
Gulf States Engineering Company Inc.
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Gulf States Engineering Co Inc.
INCORPORATED, DULY NOTICED AND HELD ON April 25, 2017,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT James Gibson, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.

Jeanne James

SECRETARY-TREASURER

4/25/17

DATE

Non-Public Works Bid

AFFIDAVIT

STATE OF LA

PARISH/COUNTY OF St. Tammany

BEFORE ME, the undersigned authority, personally came and appeared: Jeanne James, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized Secretary/Treasurer of Gulf States Engine (Entity), the party who submitted a bid in response to Bid Number 50-119337, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Jeanne James
Signature of Affiant

Jeanne James
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 25 DAY OF April, 2017

Sal II
Notary Public

Printed Name of Notary Salvadore A. Mortillaro, II
Notary Public for Life
Parish of St. Tammany, LA
Notary ID #88181

Notary/Bar Roll Number _____

My commission expires _____.