

CITY OF STOCKTON



**REQUEST FOR SEALED BIDS
PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR
FOR THE CITY OF STOCKTON, CALIFORNIA
(PUR 13-053)**

**BIDS WILL BE RECEIVED UNTIL THE HOUR OF
2:00 O'CLOCK P.M., THURSDAY, NOVEMBER 21, 2013
IN THE OFFICE OF THE CITY CLERK,
FIRST FLOOR, CITY HALL, 425 NORTH EL DORADO STREET,
STOCKTON, CALIFORNIA 95202-1997**



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NOTICE INVITING SEALED BIDS

NOTICE IS HEREBY GIVEN that sealed bids are invited by the City of Stockton, California for specifications for **PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR (PUR 13-053)** in strict accordance with the specifications.

The City of Stockton wants to purchase a trailer-mounted generator intended for power supplement and emergency standby usage for lift station, storm stations and main plant operations

The bid specifications and forms can be obtained from the City of Stockton's website at <http://www.stocktongov.com/services/business/bidflash/default.html> and must be delivered to the Office of the City Clerk, City Hall, 425 North El Dorado Street, Stockton, California, up to but no later than **2:00 p.m., on Thursday, NOVEMBER 21, 2013.**

The City reserves the right to reject any and/or all bids received.

Information on Technical Data

Douglas Smith, PW Fleet

(209) 937-7415

e-mail: Douglas.Smith@stocktongov.com

Information on BID Process/Clarification

Concepcion Gayotin, Purchasing

(209) 937-8712

e-mail: Concepcion.Gayotin@stocktongov.com

DISCLAIMER: The City does not assume any liability of responsibility for errors/omissions in any document transmitted electronically.

Dated: **October 31, 2013**

//s//BONNIE PAIGE
CITY CLERK OF THE CITY OF STOCKTON

BIDDER'S CHECKLIST
CITY OF STOCKTON / PURCHASING DIVISION

Did You:

- * ___ Complete the following bid documents (FROM THIS PACKET ONLY SUBMIT PAGES 21-24, along with any illustrations/brochures):
- * ___ Sign and notarize by jurat certificate the "Non-Collusion Affidavit" form. An "All-Purpose Acknowledgment" form will not be sufficient.
- * ___ Complete and sign the "Bid to be Submitted" form.
- * ___ Sign the "Bidder's Agreement" form. **Include (with bid) name and e-mail address for City contact, if different from signatree.**
- * ___ Recheck your math on each item extension and total column. Do not superimpose numerals on your bid forms. If erasures or interlineations appear on your bid form, they must be initialed by the person preparing the bid.
- * ___ Submit one (1) ORIGINAL of all bid documents. Additionally, submit one (1) CD with an electronic version of the bid documents.
- * ___ Review all clarifications/questions/answers on the City's website at <http://www.stocktongov.com/services/business/bidflash/default.html>
- * ___ Deliver sealed bid to City Hall, City Clerk's Office (1st floor), 425 North El Dorado Street, Stockton, CA 95202, before **November 21, 2013, at 2:00 p.m.** Sealed bid shall be marked "Bid" and indicate project name, number, and bid opening date.

Please note that some overnight delivery services do not deliver directly to the City Clerk's Office. This could result in the bid arriving in the City Clerk's Office after the bid opening deadline and therefore not being accepted. NOTE: The Stockton City Clerk's office is closed from 12 noon to 1 p.m. for lunch.

- A) **BID - PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR**
- B) **(PUR 13-053)**
- C) **NOVEMBER 21, 2013**

CONTACT INFORMATION:

Information on Technical Data	Information on Bid Process/Clarification
Douglas Smith, PW Fleet (209) 937-7415 e-mail: Douglas.Smith@stocktongov.com	Concepcion Gayotin, Purchasing (209) 937-8712 e-mail: Concepcion.Gayotin@stocktongov.com

*If not completed as required, your proposal may be voided.

***DISCLAIMER:** The City does not assume any liability or responsibility for errors/omissions in any document transmitted electronically.

*THIS FORM IS FOR YOUR INFORMATION ONLY AND DOES NOT NEED TO BE SUBMITTED WITH YOUR PROPOSAL.

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1.0 GENERAL INFORMATION

1.1 REQUEST FOR SEALED BID

The purpose of this sealed bid is to request bidders to present their qualifications and capabilities to provide PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR (PUR 13-053) for the City of Stockton.

1.2 INVITATION TO SUBMIT A BID

Bids shall be submitted no later than **2:00 p.m., on Thursday, NOVEMBER 21, 2013**, in the office of:

CITY CLERK
CITY OF STOCKTON
425 NORTH EL DORADO STREET
STOCKTON, CA 95202-1997

One copies of bid should be firmly sealed in an envelope which shall be clearly marked on the outside, "BID - PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR for the City of Stockton (PUR 13-053)." Additionally, submit one (1) CD with an electronic version of the bid documents. Any bid received after the due date and time indicated will not be accepted and will be deemed rejected and returned, unopened, to the bidder.

1.3 LOCAL BUSINESS PREFERENCE

Stockton Municipal Code Section 3.68.090 reads as follows:

Preference shall be given to the purchase of supplies, materials, equipment and contractual services from local merchants, quality and price being equal. Local merchants who have a physical business location within the boundaries of San Joaquin County, and who have applied for and paid a business license tax and registration fee pursuant to Stockton Municipal Code Chapter [5.08](#) shall be granted a three (3) percent bid preference. The three (3) percent preference shall be based on the amount of that portion of the bid which is subject to sales tax. This is intended to provide preference in the award of certain City contracts in order to encourage businesses to move into the City. (Prior code § 3-106.1)

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1.4 CONSEQUENCE OF SUBMISSION OF BID

- A. The City shall not be obligated to respond to any bid submitted nor be legally bound in any manner by the submission of a bid.
- B. Acceptance by the City of a bid obligates the bidder to enter into a contract with the City.
- C. A contract shall not be binding or valid against the City unless or until it is executed by the City and the bidder.
- D. Statistical information contained in these documents is for informational purposes only. The City shall not be responsible for the accuracy of said data. City reserves the right to increase or decrease the project scope.

1.5 EXAMINATION OF BID MATERIALS

The submission of a bid shall be deemed a representation and warranty by the bidder that it has investigated all aspects of the bid, that it is aware of the applicable facts pertaining to the bid process and its procedures and requirements, and that it has read and understands the bid. No request for modification of the provisions of the bid shall be considered after its submission on the grounds the bidder was not fully informed as to any fact or condition. Statistical information which may be contained in the bid or any addendum thereto is for informational purposes only. The City disclaims any responsibility for this information which may subsequently be determined to be incomplete or inaccurate.

1.6 ADDENDA AND INTERPRETATION

The City will not be responsible for, nor be bound by, any oral instructions, interpretations, or explanations issued by the City or its representatives. Any request for clarifications/questions/answers of a bid shall be made in writing/e-mail and deliverable to:

CITY OF STOCKTON
ATTN: DOUGLAS SMITH
PUBLIC WORKS FLEET
1465 LINCOLN STREET
STOCKTON, CA 95205
Douglas.Smith@stocktongov.com

CITY OF STOCKTON
ATTN: CONCEPCION GAYOTIN
PURCHASING
425 N. EL DORADO ST
STOCKTON, CA 95202
Concepcion.Gayotin@stocktongov.com

Such request for clarification shall be delivered to the City at least ten (10) calendar days prior to the date for receipt of bids (**November 7, 2013**). Any City response to a request for clarifications/questions/answers will be posted on the

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City's website at <http://www.stocktongov.com/services/business/bidflash/default.html> (no later than five (5) calendar days prior to the due date/**November 14, 2013**), and will become a part of the bid. The bidder should await responses to inquiries prior to submitting a bid.

1.7 DISQUALIFICATION

Any of the following may be considered cause to disqualify a bidder without further consideration:

- A. Evidence of collusion among bidders;
- B. Any attempt to improperly influence any member of the evaluation panel;
- C. Any attempt to communicate in any manner with a City of Stockton elected official during the bid process will, and shall be, just cause for disqualification/rejection of bidder's bid submittal and considered non-responsive.
- D. A bidder's default in any operation of a contract which resulted in termination of that contract; and/or
- E. Existence of any lawsuit, unresolved contractual claim, or dispute between bidder and the City.
- F. No person, firm, or corporation shall be allowed to make or file or be interested in more than one bid for the same supplies, services, or both; provided, however, that subcontract bids to the principal bidders are excluded from the requirements of this section: Section 3.68.120 of the Municipal Code.

1.8 INFORMAL BID REJECTED

A bid shall be prepared and submitted in accordance with the provisions of these bid instructions and specifications. Any alteration, omission, addition, variance, or limitation of, from, or to a bid may be sufficient grounds for rejection of the bid. The City has the right to waive any defects in a bid if the City chooses to do so. The City may not accept a bid if:

- A. Any of the bid forms are left blank or are materially altered;
- B. Any document or item necessary for the proper evaluation of the bid is incomplete, improperly executed, indefinite, ambiguous, or missing.

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1.9 CONDITIONS TO BE ACCEPTED IF ANY WORK IS SUBCONTRACTED

- A. The bidder assumes full responsibility, including insurance and bonding requirements, for the quality and quantity of all work performed.
- B. If bidder's supplier(s) and/or subcontractor's involvement requires the use of a licensed, patented, or proprietary process, the vendor of the process is responsible for assuring that the subcontractor, supplier, and/or operator have been properly authorized to use the process or for providing another process which is comparable to that which is required prior to submission of a bid.

1.10 LICENSING REQUIREMENTS

Any professional certifications or licenses that may be required will be the sole cost and responsibility of the successful bidder.

A City of Stockton Business license may be required for this project. Please contact the City of Stockton Business License Division at (209) 937-8313.

1.11 HOLD HARMLESS DEFENSE CLAUSE

Contractor agrees to indemnify, save, hold harmless, and at City's request, defend the City, its officers, agents, and employees from any and all costs and expenses (including attorney and legal fees), damages, liabilities, claims, and losses occurring or resulting to the City in connection with the performance, or failure to perform, by Contractor, its officers, agents, sub-contractors, employees, or anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable under this Agreement, and from any and all costs and expenses (including attorney and legal fees), damages, liabilities, claims, and losses occurring or resulting to any person, firm, or corporation who may be injured or damaged by the performance, or failure to perform, of Contractor, its officers, agents, or employees under this Agreement. The duty to defend and the duty to indemnify are separate and distinct obligations. The indemnification obligations of this section shall survive the termination of this agreement.

If the Bidder should subcontract all or any portion of the work to be performed under this agreement, the Bidder shall require each subcontractor to indemnify, hold harmless and defend the City of Stockton, its Mayor, Council, officers, officials, employees, authorized volunteers or authorized agents in accordance with the terms of the preceding paragraph.

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1.12 APPLICABLE LAW

This agreement shall be governed by the laws of the State of California. Venue shall be proper in the Superior Court of the State of California, county of San Joaquin, Stockton Branch, or, for actions brought in Federal Court, the United States District Court for the Eastern District of California, Sacramento Division.

1.13 METHOD OF PAYMENT

Payment will be made within thirty (30) days after invoices are received and accepted by the City Manager. Invoices are to be rendered monthly. City of Stockton does not pay for late fees or finance charges.

1.14 NOTICE TO OUT-OF-STATE VENDOR

The City of Stockton will pay all applicable sales/use tax directly to the State of California for this purchase.

It is the policy of the City of Stockton to pay all applicable California sales/use tax directly to the State Board of Equalization (BOE) pursuant to California Revenue and Taxation Code 7051.3. The City of Stockton will self-accrue all sales/use tax on purchases made from out-of-state vendors.

Sales and use tax on purchases made by the City of Stockton from all companies located outside California and whose products are shipped from out of state will be remitted to the BOE directly by the City under permit number **SR KHE 28-051174 DP**. **Please do not include sales/use tax on the invoice that you submit to the City of Stockton.**

Questions regarding the City of Stockton's payment of sales/use tax can be directed to the City of Stockton's Purchasing Division at (209) 937-8357.

1.15 COMPETITIVE PRICING

Bidder warrants and agrees that each of the charges, economic or product terms or warranties granted pursuant to this Contract are comparable to or better than the equivalent charge, economic or product term or warranty being offered to any similarly situated commercial or other government customer of bidder. If bidder enters into any arrangements with another customer of bidder to provide product under more favorable charges, economic or product terms or warranties, bidder shall immediately notify CITY of such change and this Contract shall be deemed amended to incorporate the most favorable charges, economic or product terms or warranties.

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1.16 FUNDING

Any contract which results from this bid will terminate without penalty at the end of the fiscal year in the event funds are not appropriated for the next fiscal year. If funds are appropriated for a portion of the fiscal year, this contract will terminate without penalty, at the end of the term for which funds are appropriated.

1.17 UNCONDITIONAL TERMINATION FOR CONVENIENCE

The City may terminate the resultant contract for convenience by providing a thirty (30) calendar day advance notice unless otherwise stated in writing.

1.18 AUDITING OF CHARGES & SERVICES

The City reserves the right to periodically audit all charges and services made by the bidder to the City for services provided under the contract. Upon request, the bidder agrees to furnish the City with necessary information and assistance.

1.19 AWARD

Upon conclusion of the bid process, a contract may be awarded for The Purchase of a Trailer-Mounted Portable Generator (13-053) for the City of Stockton.

The City reserves the right to make an award on any item, quantity of any item, group of items, or in the aggregate to that/those bidder(s) whose bid(s) is/are most responsive to the needs of the City. Further, the City reserves the right to reject any and all bids, or alternate bids, or waive any informality in the bid as is in the City's best interest.

Consideration will be given in comparing bids and awarding a contract, not only to the dollar amount of the bids, but also to:

- Kind
- Suitability
- Warranties
- Trade-in
- Buy-back agreement
- Salvage value
- Standardization
- Delivery time

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- Any other criteria as best suits the City of Stockton
- Compatibility resulting in the lowest ultimate cost; Best value to the City

1.20 CHANGES

The City's Representative has the authority to review and recommend or reject change orders and cost proposals submitted by the bidder or as recommended by the bidder's project manager, pursuant to the adopted City of Stockton Standard Specifications.

1.21 OTHER GOVERNMENTAL AGENCIES

If mutually agreeable to all parties, the use of any resultant contract/purchase order may be extended to other political subdivisions, municipalities, or tax supported agencies.

Such participating governmental bodies shall make purchases in their own name, make payment directly to successful bidder and be liable directly to the successful bidder, holding the City of Stockton harmless.

1.22 PRODUCT OWNERSHIP

Any documents, products or systems resulting from the contract will be the property of the City of Stockton.

1.23 CONFIDENTIALITY

If bidder believes that portions of a bid constitute trade secrets or confidential commercial, financial, geological, or geophysical data, then the bidder must so specify by, at a minimum, stamping in bold red letters the term "**CONFIDENTIAL**" on that part of the bid which the bidder believes to be protected from disclosure. The bidder must submit in writing specific detailed reasons, including any relevant legal authority, stating why the bidder believes the material to be confidential or a trade secret. Vague and general claims as to confidentiality will not be accepted. The City will be the sole judge as to whether a claim is general and/or vague in nature. All offers and parts of offers that are not marked as confidential may be automatically considered public information after the contract is awarded. **The bidder is hereby put on notice that the City may consider all or parts of the offer public information under applicable law even though marked confidential.**

1.28 WARRANTY

Upon receipt of such notice, Vendor shall, within 7 days, repair and replace the defective goods or parts thereof, free of cost at the laboratory location. Vendor

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shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on City for the replaced parts/goods thereafter.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months.

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2.0 BACKGROUND/GENERAL NATURE OF SERVICE

The City of Stockton's Regional Wastewater Control Facility is requesting sealed bids from qualified firms and/or individuals for a trailer-mounted generator. This specification outlines the requirements for providing complete, certified, licensed, operable and tested mobile diesel engine generator. The portable generator shall be sound attenuated with a self-contained fuel system and voltage changeable distribution. Equipment and materials shall be of current design and ready for delivery, connection and operation.

The engine shall be equipped with the necessary devices to meet EPA Tier 4 regulations for the operation of a portable diesel generator. In addition, the engine generator shall have been factory-tested to ensure reliable operation at rated power.

The generator supplier shall have available factory test results and factory published Service, Operation & Maintenance Manual for the engine-generator set. The engines shall be filled with crankcase lube oil and radiator coolant as recommended by the engine manufacturer and/or as specified herein.

The engine generator set shall have posted operating instructions near the control panel and operating devices. Warning placards shall be visible at locations of customer access to live voltage parts and other electrical connection points.

Bids must include FOB destination and include all charges and sales/service taxes.

2.1 INTENDED USE

The City of Stockton wants to supplement power generation capacity and serve as back-up emergency use.

2.2 APPLICABLE DOCUMENTS

The following documents shall apply to the specified equipment:

NEMA MG1 Motors and Generators
EGSA 100 Performance Standards for Engine Generators
JIS Performance Standard for Engine Generators

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JES Electrical Performance Standards
SAE Society of Automotive Engineers

2.3 SPECIFICATIONS

Whenever, in the specifications, any material or process is indicated or specified by patent or proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the material or process which shall be equivalent in every respect to that so indicated or specified, provided however, that if material, process, or article offered by the Bidder is not, in the opinion of the City of Stockton, equal in every respect to that specified, then the Bidder must furnish the material, process, or article specified, or one, that in the opinion of the City of Stockton, is equal thereof in every respect.

2.3.1 Manufacturing Standard

Subject to compliance with requirements, provide portable, sound attenuated, diesel engine generator with certification, license plate and tests.

Generator supplier shall be capable of providing equipment as specified, maintaining service parts inventory and service.

2.3.2 Ratings

QTY-1 Trailer Mounted, Towable 120kW Diesel Generator

The portable sound attenuated generator set shall be rated for continuous, prime power operation at 120kW, 1800 rpm, 60 Hz, 0.80PF, 3 phase 4 wire. The following manually selectable voltages shall be available:

- 277/480V, 3-phase, 4-wire
- 120/240V, 3-phase, 4-wire
- 120/208V, 3-phase, 4-wire
- 120/240V, 1-phase, 3-wire, 30amp

In addition, the following performance ratings shall apply to the generator:

- Frequency regulation shall be isochronous under varying loads from no load to full load.
- Frequency variation shall not exceed $\pm 0.25\%$ from no load to full load.
- Voltage regulation shall not exceed $\pm 1.5\%$ from no load to full load.
- Voltage variation shall not exceed $\pm 0.5\%$ from no load to full load.
- Telephone influence factor shall be less than 50.

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The generator shall be capable of picking up 100% load in one step in accordance with NFPA 110.

The sound level shall not exceed 71 dB(A) @ 23 feet at full load operation.

2.3.3 Engine and Equipment

The diesel engine shall be 4-cycle, direct connected to the generator by a semi-flexible coupling and both shall be mounted on a common sub-base. The engine shall have sufficient power to produce the specified rating when operating at generator synchronous speed with all accessories required for normal operation including exhaust, fuel, cooling and battery charging systems. The engine, with attached cooling system and the generator shall be mounted on the sub-base with heavy duty, resilient mounts that provide vibration isolation. The engine shall be EPA certified for Mobile Off-Highway use and the supplier shall make available, the Federal EPA Certificate of Conformance to substantiate certification.

Maximum engine speed shall be 1800 RPM. The complete diesel engine generator set shall be free of critical speeds from either a major or minor order, and torsional vibrations from 10% below idling to 10% above synchronous speed. Engine shall be equipped with protective controls and sensors for shutdown for low oil pressure, high temperature and overspeed.

The engine shall be equipped with a fuel system suitable for operation on No. 2 diesel fuel oil meeting the requirements of ASTM-975. The fuel system shall include replaceable filters.

The engine driven fuel pump shall be positive displacement and capable of providing 110% of the prime power with all filtering equipment in operation.

The engine shall be equipped with a positive displacement, full pressure, lubrication oil pump with full flow replaceable spin-on canister oil filters and a dipstick. Provide replaceable dry element air cleaner with restriction indicator. Provide engine-mounted battery charging alternator, 35 ampere minimum and solid-state voltage regulator.

Provide electronic isochronous governor, consisting of magnetic pickup speed sensor, adjustable electronic control, and an actuator-mounted integral with the fuel pump. Frequency regulation shall be isochronous under varying loads from no load to full load. Frequency variation for constant loads shall not exceed $\pm 0.25\%$ of rated speed.

The cooling system shall include a belt-driven pusher fan and water pump, and a thermostat for temperature control. The cooling system shall be rated for full rated load operation in 110°F ambient conditions. Guard rotating parts against

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accidental contact. Cooling system shall be filled with minimum 50% mixture of coolant/anti-freeze. Include coolant overflow tank level for monitoring coolant level.

Provide thermostatically controlled, tank type, jacket water heater for quick starting. Jacket water heater shall be rated 120VAC, 1500 watt. The heater AC input shall be connected to a NEMA 5-20P flush mounted male input plug located on the generator receptacle panel.

2.3.4 Engine Starting System

Provide a solenoid operated positive engagement gear driven electric starter for operation on 24 volts DC. Provide automatic cranking controls with three crank attempts with 15 second rest periods in between. Failure to start after three cranking attempt, shall shut down and lock out the engine control.

Provide 24 VDC lead acid battery system with sufficient capacity to provide 100 seconds engine cranking. Insulated stranded copper conductors shall connect the battery to the generator starter. Battery shall be mounted in a corrosion proof tray with hold-downs to secure the battery.

Provide a UL listed battery float charger with a minimum ampere rating of 6A, 24 VDC output, 120 VAC input. Charger shall be automatic voltage regulated with 1% of the correct temperature compensated value from no load to full load. Boost charging shall be automatic. Include AC and DC fuses protection and a DC charge ammeter. The charger shall be mounted inside the generator enclosure and the AC input shall be connected to a NEMA 5-20P flush mounted male input plug located on the housing exterior.

2.3.5 Generator

The generator shall be three phase, 60 Hz, single bearing, four pole-revolving field, drip-proof and air cooled. The rotor shall have amortissuer windings and be dynamically balanced. Generator windings shall be re-connectable, allowing the following voltage connections:

- 277/480V, 3-phase, 4-wire
- 120/240V, 3-phase, 4-wire
- 120/208V, 3-phase, 4-wire
- 120/240V, 1-phase, 3-wire, 30amp

The insulation system shall vacuum impregnated with a second finish of epoxy varnish that is fungus resistant. The temperature rise for rotor and stator at full load shall not exceed the allowable temperature use for Class F insulation. THD shall not exceed 5% of rated voltage at full load and no single harmonic shall exceed 3% of rated voltage at full load.

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The excitation system shall be brushless utilizing full wave silicon diodes with surge and excitation overload protection. The excitation system shall be powered by three phase, open delta design for maximum motor starting capability and isolation from non-linear loads. Provide permanent magnets in the construction for rapid voltage build up and sustained 300% short circuit current. Electronic current boost methods or CT boost methods are not acceptable.

The voltage regulator shall be of solid-state construction and temperature compensated. Voltage regulation from no load to full load shall not exceed $\pm 1.5\%$. Regulator shall utilize pulse width modulation and be capable of performing in the presence of non-linear loads. The regulator shall be volts/hertz with frequency compensation to allow frequency to decline in an adjustable manner before correcting the output voltage in a linear manner.

2.3.6 Engine Generator Control Panel

The engine generator control panel shall be an integral part of the generator housing to completely isolate it from engine vibration. The panel shall be recessed into the housing with sealed construction and a gasketed door with viewing window for splash proof operation. All switches, lights and other devices shall be clearly labeled on the panel face.

Provide a three position panel-mounted switch (STOP-MANUAL-AUTO) to stop the engine in the STOP position, start and run the engine in the MANUAL position, and allow the engine to start and run by closing a remote contact and stop by opening the remote contact in the AUTO position.

Provide the following panel-mounted accessories:

- 2-wire control for Auto Start-Stop operation
- Panel lighting with ON/OFF switch
- Running time meter in hours and tenths of hours
- Voltage adjustment rheostat $\pm 15\%$

Provide flush-mounted analog meters (2%) for the following:

- AC ammeter
- Phase Selector switch shows phase amperage
- AC voltmeter
- Phase Selector switch shows phase voltage
- Frequency meter

Provide engine indicating meters and devices:

- Water temperature gauge
- Oil pressure gauge
- DC charge meter

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Controls shall shut down and lock out the engine upon:

- Failure to start after specified time (Over-crank)
- Over-speed
- Low oil pressure
- High engine temperature

Provide DC powered engine monitor with the following lights on the control panel:

- | | | |
|--------------------|-----------|-------------|
| • Engine Running | Green LED | (indicated) |
| • Low oil pressure | Red LED | shutdown |
| • High engine temp | Red LED | shutdown |
| • Over-crank | Red LED | shutdown |
| • Over-speed | Red LED | shutdown |

2.3.7 Power Output Connections

Provide UL489 listed, electronic trip, circuit breaker, rated 150 amperes, located in control panel dead front behind removable cover. The circuit breaker shall be sized to operate at the highest rated ampacity (Low Wye voltage). A dedicated, UL listed, inverse time delay, over-current relay shall be provided to monitor and protect alternator output, at the lowest rated ampacity (High Wye Voltage). In the event of an overload or short circuit, the over-current relay shall activate the circuit breaker shunt trip and open the circuit breaker. The over current relay shall be factory set and tested prior to shipment. Output shall be cable connected to a power output reconnection bus bar. Cable entrance to the power output terminals shall be through a cable entrance panel. Mechanical lugs shall be provided for each phase, neutral and ground. Connection diagrams for the various voltage selections and safety placards shall be clearly displayed.

Provide a customer entry panel as an integral part of the generator housing, to completely isolate it from engine vibration. The panel shall be recessed into the housing with seamless construction with a hinged cover to shield interior from falling water. The bottom of the customer panel area shall be sloped downward for cable entry and to eliminate water accumulation.

The panel shall contain three, 50A-240W twist lock female receptacles and two, 120V single-phase duplex NEMA 5-20R GFCI receptacles. The 50A receptacles and the GFCI convenience receptacles shall be energized regardless of the voltage connection. All receptacles shall be flush mounted and shall be individually protected with UL listed circuit breakers flush mounted within the panel area and clearly labeled which breaker feeds which receptacle. In addition, the panel shall contain the flush mounted male plugs for the AC input power to the water jacket heater and battery charger, and include the automatic Start-Stop terminal connection block.

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2.3.8 Housing

The engine generator set and all components shall be enclosed in a factory fit, sound attenuated housing with access doors on each side and a door over the control panel. The housing shall be designed so the exhaust system is contained within the enclosure and both the radiator and exhaust discharge vertically in the same duct.

The doors shall be arranged so all filters, battery, water jacket heater and other maintenance items can be easily accessed. The control panel door shall have a Plexiglas window for unobstructed viewing of the engine control panel. All doors shall be gasketed and the handles shall be recessed latching type with provisions for pad-locking. The enclosures shall be equipped with a single point lifting bail on the top.

The housing shall be factory treated with a zinc phosphate process prior to finish painting. The primer coat shall be electrostatic spray-on, urethane modified, epoxy resin paint. Finish paint shall consist of a multi-coat, electrostatic spray-on, alkyd melamine resin paint. Color shall be factory white. The interior of the housing and all intake and discharge ducts shall be lined with sound absorbing, high temperature foam, per UL94 standards. The housing and exhaust system shall be designed to limit the noise level to 71 dB (A) at 23 feet when operating at full rate load.

2.3.9 Exhaust System

The exhaust system shall be designed so that the muffler is mounted inside the housing, completely concealing all components. Exhaust components mounted on the outside of the housing is not acceptable. Provide critical silencer as recommended by the generator set manufacturer to meet overall specified sound level and size to assure full load operation without exceeding the engine manufacturer's recommended back pressure. Provide steel flexible connection between the engine and exhaust line as required for pipe expansion and contraction.

2.3.10 Fuel Storage System

The engine generator shall be fitted with a factory installed, in-housing fuel tank with big enough to operate at full load for a minimum of 24 hours. The trailer tank shall be steel and all penetrations shall be on top of the tank only. Tank construction shall include interior baffles to contain fuel oscillations when in transit. Provide properly sized flexible fuel lines for supply and return and a drop tube for fuel pick-up. Galvanized or copper components shall not be allowed. Tanks should be double wall with scupper box.

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2.3.11 Trailer

Trailer shall be low center of gravity, low bed type with axles as stated below, towing coupler, and screw jack. The trailer shall meet or exceed the following specifications:

- Axle Capacity Sized by the trailer manufacturer to meet total GVWR requirements under 10,000 pounds
- Number of Axles Pintle Style Hitch; 100kW trailer double axle
- Suspension Torsion or Leaf Spring Type
- Jackstand 5,000 lbs.
- Brakes Surge hydraulic on all axles

Trailer shall be equipped with highway legal fenders and a front adjustable leveling stand with footpad. Unit shall be wired, 12-volt, to comply with Federal highway laws.

Tire and wheel size shall be OEM type; size per the trailer manufacturer to meet the full load GVWR requirements of the trailer with generator, fuel tank, fuel and all loaded accessories.

Coupler shall be the Lunette eye type; 3-inch in diameter.

Provide safety chain and breakaway cable to meet D.O.T. requirements. Safety chain shall be anchored to the trailer by use of a loop of cold-rolled steel, or equivalent solid connection. It shall be lap-welded, not butt-welded, to the trailer. Connection of the chain to the loop shall be a double-clevis connecting link for use on trailer safety chains and shall have a strength rating at least equal to the chain. Connection of the chain to the tow vehicle shall be a ¼ inch latching clevis-type hook for use on trailer safety chains with a strength rating equal to the chain.

All bolts shall be minimum SAE Grade 5 or SAE Grade 8 where applicable and shall be easily identifiable. All nuts used for load bearing structural applications, unless otherwise specified shall be SAE Stover (top lock) grade "B" lock nuts. Only flat washers shall be used with lock nuts. Lock Tite shall be used on any bolts that are torqued into a blind hole. All fasteners shall allow accessibility using standard mechanics tool.

Trailer lighting shall conform to the latest edition of the Federal Motor Vehicle Safety Standard (FMVSS) No. 108. Provide individual stop and directional tail lamps, each with running lights. Provide license plate holder and light. The wiring shall be securely attached to substantial supports along its entire route. At no time shall the route come near to or be a part of any heat source, exhaust system or exhaust support. Where installed wiring is required to pass through any body panel or partition, the wiring shall be protected with an insulating grommet at the point of passage.

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Trailer connector shall be 4-pin, suitable for use with surge hydraulic brakes. All terminal and connectors shall conform to SAE standards. All low-tension primary cable shall be color coded in accordance with SAE J-1128 as follows:

- White Ground connection
- Black Clearance, marker, running and tail lights
- Yellow Left turn indicator lights
- Green Right turn indicator lights
- Note: Provisions for connection of electric brakes shall be provided if required by federal, state or local codes.

Trailer shall be painted black and comply or conform to federal requirements. Prime coat trailer and any areas susceptible to corrosion. Prime coat must be compatible with finish top coat and applied as per manufacturers recommendations.

2.4 DELIVERY & ACCEPTANCE

Delivery and acceptance of the equipment will take place at City of Stockton's Regional Wastewater Control Facility Maintenance Division located at 2500 Navy Drive, Stockton, CA 95206. Unit will be inspected before acceptance by an authorized representative of the City of Stockton for workmanship, appearance, proper functioning of all equipment and systems and conformance to all other requirements of these specifications. If deficiencies are found, it shall be the responsibility of the Bidder to pick up the vehicle/unit for re-inspection and acceptance. Payment and/or commencement of discount period (if applicable) will not be made until corrective action has been completed.

Equipment is to be delivered in working condition with exempt license plate and CARB Emissions Certified. Equipment must meet or exceeded EPA tier 4.

Handle equipment carefully to prevent physical damage. Do not install damaged equipment; remove from site and replace damaged equipment with new.

Provide equipment grounding connections and material for the diesel generator in accordance with NFPA 70 for a separately derived system. Tighten connections to comply with tightening torques specified in UL 486A to assure permanent and effective grounding.

2.5 PRODUCTION TESTS

Provide certified factory production tests on the equipment performed at rated load. Tests shall include

- Steady state voltage and frequency analysis
- Rated load at rated PF

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- Maximum power analysis
- 2 hours of resistive load test

2.6 PARTS AND OPERATIONS MANUALS

Provide 3 printed sets of Service, Operations & Maintenance manuals and 1 electronic copy of Service, O&M manual at time of generator shipment. Manuals shall be shipped in suitable 3-ring binders with manufacturers name, address, phone number and points of contact included. Include sales, parts department, service department and emergency (off hours) phone numbers.

2.7 WARRANTY

The entire engine-generator assembly shall be covered by a manufacturer's express written warranty, not less than one year from the date of final installation by end-user. The written warranty shall be included with the O & M manuals.

2.8 BID AMOUNT

The bid shall include a detailed description of the requirement. A successful technical quote shall include price(s); FOB destination; a point of contact (name, email, and telephone number); delivery date (delivery date is of the utmost importance); and payment terms.

2.9 BID EVALUATION

Award will be made to the party whose quote offers the best value to City, technical, price, and other factors considered. City may award this contract to other than the lowest price technically acceptable quote.

2.10 LITERATURE

Literature which fully describes the item on which you are proposing is to be submitted with your bid

BID DOCUMENTS

- A) BID – PURCHASE OF A TRAILER-MOUNTED PORTABLE GENERATOR
- B) PUR 13-053
- C) NOVEMBER 21, 2013

COMPANY NAME: _____

CONTACT NAME: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

EMAIL: _____

BID TO BE SUBMITTED

<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total</u>
1	Trailer-Mounted, Towable 120kW Diesel Generator	\$_____ /ea.	\$_____
		Subtotal	\$_____
		Sales Tax (8.25%)	\$_____
		GRAND TOTAL	\$=====

**Attach manufacturer specs for the equipment you are quoting. Must include a photo of the product.

The bidder warrants this equipment for a minimum period of _____ years.

Complete delivery will be made within _____ calendar days from award of bid.

Any questions regarding specifications should be directed to Doug Smith, PW Fleet,
Doug.Smith@stocktongov.com

FIRM NAME

ADDRESS

SIGNATURE

PRINTED NAME & TITLE

EMAIL ADDRESS

DATE

() _____
TELEPHONE

BIDDER’S AGREEMENT

In submitting this bid, as herein described, the bidder agrees that:

1. They have carefully examined the specifications and all other provisions of this form and understand the meaning, intent, and requirements of same.
2. They have reviewed and understand all clarifications/questions/answers on the City’s website at <http://www.stocktongov.com/services/business/bidflash/default.html>
3. They will enter into written contract and furnish the item(s)/service(s) in the time specified in strict conformity with the specifications and conditions contained therein for the price quoted by the bidder on this bid.
4. The proposed price is inclusive of all freight and handling charges and includes delivery to the City of Stockton, Municipal Service Center, or if specified, to the alternate point of delivery shown in the specifications.
5. They have signed and notarized the attached Non-Collusion Affidavit form whether individual, corporate or partnership. Must be “A Jurat” notarization.

FIRM

ADDRESS

SIGNED BY

TITLE OR AGENCY

E-MAIL ADDRESS

NON-COLLUSION AFFIDAVIT

No. 1

AFFIDAVIT FOR INDIVIDUAL BIDDER

STATE OF CALIFORNIA, _____)ss.

County of _____)
(insert)

_____ being first duly sworn, deposes and says: That on behalf of any person not named herein; that said Bidder has not colluded, conspired, connived or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation to put in a sham bid, or that such other person, firm or corporation shall or should refrain from bidding; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Bidder.

(Signature Individual Bidder)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20_____
by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Seal _____

Signature _____

No. 2

AFFIDAVIT FOR CORPORATION BIDDER

STATE OF CALIFORNIA, _____)ss.

County of _____)
(insert)

_____ being first duly sworn, deposes and says: That they are the _____ of _____ a corporation, which corporation is the party making the foregoing bid, that such bid is genuine and not sham or collusive, or made in the interest or behalf of any person not named herein; that said Bidder has not colluded, conspired, connived or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation to put in a sham bid, or that such other person, firm or corporation shall or should refrain from bidding; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Bidder.

(Signature Corporation Bidder)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20_____
by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Seal _____

Signature _____

No. 3

AFFIDAVIT FOR FIRM, ASSOCIATION, OR CO-PARTNERSHIP

STATE OF CALIFORNIA, _____)ss.

County of _____)
(insert)

_____,
each being first duly sworn, depose and say: That they are a member of the firm, association or co-partnership,
designated as _____ who is the party making the foregoing bid; that the other partner, or partners, are _____ that such bid is genuine and not sham or collusive, or made in the interest or behalf of any person not named herein; that said Bidder has not colluded, conspired, connived or agreed, directly or indirectly with, or induced or solicited any other bid or person, firm or corporation shall or should refrain from proposing; and has not in any manner sought by collusion to secure to themselves any advantage over or against the City, or any person interested in said improvement, or over any other Bidder.

(Signature)

(Signature)

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20_____
by _____, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Seal _____

Signature _____

