

**BID SPECIFICATIONS**

**FOR**

**DG HUNTER UNITS 5-11**  
**SPARE PARTS**  
**ELECTRIC PRODUCTION**

**CITY OF ALEXANDRIA**  
**(OWNER)**

**MAYOR**  
**JEFFREY W. HALL**

**COUNCIL MEMBERS**  
**CHARLES L. "CHUCK" FOWLER JR.**  
**JOE FULLER**  
**JULES R. GREEN**  
**MALCOLM X LARVADAIN**  
**GERBER M. PORTER**  
**HARRY B. SILVER**  
**JAMES "JIM" VILLARD**

**TOWN CLERK**  
**DONNA JONES**

**DIRECTOR OF UTILITIES**  
**MICHAEL MARCOTTE**

**NOVEMBER 2019**

**PAN AMERICAN ENGINEERS, LLC**  
**P.O. BOX 8599 (71306)**  
**1717 JACKSON STREET (71301)**  
**ALEXANDRIA, LOUISIANA**  
**(318)473-2100**  
**PAE Job No. 11119**

CITY OF ALEXANDRIA  
DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

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CITY OF ALEXANDRIA

DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

# I. ADVERTISEMENT

**I. ADVERTISEMENT FOR BID**

CITY OF ALEXANDRIA, LOUISIANA  
PURCHASING DEPARTMENT

**BID # 2268 DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRICAL  
DISTRIBUTION**

Separate sealed bids for DG HUNTER UNITS 5-11 – SPARE PARTS, will be received by the CITY OF ALEXANDRIA at the CITY COUNCIL MEETING CHAMBERS, ALEXANDRIA CITY HALL, ALEXANDRIA, LOUISIANA, until 10:00 AM CST CDT, TUESDAY, JANUARY 28, 2020, and then at said office publically opened and read aloud.

Complete bid packet, bid specifications may be obtained at the City of Alexandria’s website, [www.cityofalexandrialala.com](http://www.cityofalexandrialala.com) under the heading “Business”, and drop down to “RFP/RFQ/RFI/BIDS”. There is no charge to download bid documents from the City’s website.

Pursuant to LA R.S. 38:2212.1 B.(4)(a), vendors have the option to submit their bids electronically. Please find bid related documents and place electronic bids at [www.centralbidding.com](http://www.centralbidding.com). For questions regarding the electronic bidding process, please call Central Bidding at 225-810-4814.

Questions and/or request for clarification of bid specifications are to be in written form only, either mailed or emailed to Thomas C. David, Jr., Pan American Engineers, 1717 Jackson Street, Alexandria, LA 71301; Emailed to: [Tom@paealex.com](mailto:Tom@paealex.com) and must be received within ten (10) calendar days of the scheduled receipt of bids.

**Address for Postal Delivery:**

City of Alexandria  
Donna Jones, City Clerk  
PO Box 71  
Alexandria, LA 71309-0071

**Address for Courier or  
Overnight Delivery:**

City of Alexandria  
Donna Jones, City Clerk  
915 Third Street, 1<sup>st</sup> Floor  
Alexandria, LA 71301  
Phone: 318-449-5047

**Address for Electronic  
Bid Submission:**

[www.centralbidding.com](http://www.centralbidding.com)  
Phone: 225-810-4814

PLEASE PUBLISH THREE (3) TIMES:

Friday, November 29, 2019  
Friday, December 06, 2019  
Friday, December 13, 2019

CITY OF ALEXANDRIA  
DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

II. BID COVER SHEET

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**



Jodi McKee  
Purchasing Manager

**City of Alexandria**  
Purchasing Department  
P. O. Box 71  
Alexandria, Louisiana  
71309-0071



Office: (318) 441-6180  
Fax: (318) 441-6185

**II. BID COVER SHEET**

**DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

It is the intent of the City of Alexandria to secure pricing on Spare Parts, for use by the City of Alexandria Electric Production Department for the Wäertsilä Reciprocating Internal Combustion Engines and ancillary parts. Said material is to be inventoried by the City of Alexandria Electric Production Department. Quantities given are estimated and not guaranteed. All products shall be new and of current manufacture.

***Completed bid should be returned as issued by the City of Alexandria with ALL PAGES intact and all columns filled in. Incomplete columns or missing pages, to include addendum pages, may result in the bidder's (or proposer's) entire bid being rejected.***

Questions and/or clarifications of bid specifications must be submitted in written form only, either mailed, faxed, or e-mailed to the attention of Thomas C. David, Jr., Pan American Engineers, LLC, 1717 Jackson Street, Alexandria, LA 71301; Fax: (318) 473-2275; Email: tom@paealex.com and must be received within 10 calendar days of the scheduled receipt of bids.

**Bidder Information:**

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Telephone #: (     ) \_\_\_\_\_ Fax #: (     ) \_\_\_\_\_  
 Authorized Printed Name and Title: \_\_\_\_\_  
 Authorized Signature: \_\_\_\_\_

CITY OF ALEXANDRIA

DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

### III. GENERAL CONDITIONS

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

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**III. GENERAL CONDITIONS FOR BIDDERS**  
**PLEASE READ CAREFULLY**

1. Pursuant to LA R.S 38:2212.1. C.(1)(2), any manufacturer's preference in this proposal is descriptive, but non-restrictive, and is used only to indicate minimum requirement for type, grade and quality unless otherwise specified.
2. Pursuant to LA R.S. 38:2212 B.(1), the provisions and requirement of this bid shall not be considered as informalities and shall not be waived by the City of Alexandria. Therefore, conditions and specifications on this bid form shall be strictly enforced and any and all alterations, deviations, and non-compliance to said conditions and specifications, either on the bid form or by separate attachment, shall be grounds for immediate disqualification.
3. Preference shall be given to bidders quoting F.O.B. Destination (the City of Alexandria using department), FREIGHT PREPAID, unless otherwise requested.
4. Each bidder shall submit his proposal on the proposal form furnished by the City of Alexandria Purchasing Department. The complete bid package must be returned as issued by the City with all pages intact and all specification response columns filled in. Incomplete columns or missing pages, to include addendum pages, shall result in the vendor's entire bid package being rejected.
5. Literature, brochures, and other related paperwork attached to the bid should be identified with the name of the bidder and bid item number.
6. In case of a mathematical discrepancy between unit price and extensions, the unit price shall prevail.
7. Pursuant to LA R.S. 38:2212 F., the bid specifications may contemplate a fixed escalation or de-escalation in accordance with the United States Bureau of Labor Statistic's Consumer Price Index or the Producer Price Index. Bids based on specifications which are subject to a recognized escalation index shall be legal and valid for any item of a public work, at the discretion of the City.
8. Pursuant to LA R.S. 38:2212.1. F., any public procurement unit may participate in a cooperative purchasing agreement with the City of Alexandria to acquire quantities of the above listed items under a contract with the City of Alexandria for items awarded by public bid, pursuant to the cooperative purchasing provisions of Part VII of Chapter 17 of Subtitle III of Title 39 of the Louisiana Revised Statutes of 1950, R.S. 39:1701 et seq.
9. The City of Alexandria reserves the right to award by item or by total bid, unless otherwise specified in the bid specifications. (Price(s) should be itemized.)
10. All erasures or corrections on the bid form must be initialed and the City of Alexandria may rely on the apparent authority represented by the initials.
11. The City of Alexandria reserves the right to reject for cause any and all bids or parts of bids, or accept bids most beneficial to the City.



**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

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**General Conditions for Bidders - Please Read Carefully (Continued)**

12. Any bid submitted which contains additions, conditional or alternate bids, or irregularities which may make the proposal incomplete, indefinite, or ambiguous as to its meaning, thus requiring clarification after the specified date and time of bid opening shall be rejected.
13. Bids shall be opened publicly in the City Council Chambers or Council Committee Room.
14. Cash discounts may be accepted, but **SHALL NOT** be considered in making award.
15. Regarding a bid for purchase of materials, supplies or services, not to include construction of any public works, a written notice of acceptance mailed or otherwise furnished to the successful bidder shall result in a binding contract without further action by either party.
16. When any bid is accepted for the construction or doing of any public works, a written contract shall be executed by and between the City of Alexandria and the Contractor. No contract shall be binding upon the City until it has been executed by the City and delivered to the successful bidder. Should the bidder to whom the contract is awarded fail to execute the contract, the award shall then be made to the next lowest responsible bidder, or re-advertised for public bid, said decision to be in the sole judgment of the City of Alexandria. This action may result in the loss of bidding privileges for a period of one (1) year.
17. The City of Alexandria shall schedule for payment the invoices for articles or services purchased under this bid within thirty (30) days after due and proper delivery accompanied by invoice.
18. The City of Alexandria is exempt from all sales taxes. A sales tax exempt form shall be furnished by the City of Alexandria Purchasing Department, if requested.
19. Bidder(s) awarded item(s) by the City of Alexandria shall be responsible for supplying all products at the awarded price(s). Failure may result in the City's cancellation of the remaining items awarded.
20. Regarding Service Contracts and Procurement Contracts, the terms of the contract shall be binding upon any and all parties involved until goods and supplies are delivered, services have been rendered, and/or work has been completed and accepted by the Mayor on behalf of the City of Alexandria and all payments required to be made to the Contractor have been made. However, a contract may be terminated under any and all of the following conditions:
  - (a) By mutual agreement and consent of either party upon thirty (30) days written notice to the other party;
  - (b) By the Mayor, on behalf of the City of Alexandria, as a consequence of the failure of the Contractor to comply with the terms and conditions of the contract or the progress or quality of work to be performed in a satisfactory manner, proper allowance being made for circumstances beyond the control of the Contractor; or
  - (c) By satisfactory completion of all services and obligations described in the contract.

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

**General Conditions for Bidders - Please Read Carefully (Continued)**

If the contract is terminated for any of the terms and conditions authorized in sub-paragraph (b) above, Contractor shall be formally notified in writing by the City of Alexandria Purchasing Department by means of certified mail informing him of cancellation of the contract, giving specific reasons for said cancellation. Contractor shall have the right to appeal to the City Council within ten (10) days from the date that said notification is placed in the U.S. Mail. Contractor's appeal shall be accomplished by means of a letter addressed to the City Council and delivered to the City Clerk, stating that an appeal to the decision of cancellation is desired. The City Council shall thereafter hold a hearing on the appeal, giving all parties the opportunity to present any and all evidence concerning the decision of cancellation. After hearing the appeal, the city Council may, by a majority vote, sustain, modify, or reverse the findings for said decision and shall provide, if requested by Contractor, a written determination of its findings.

21. Contractors submitting bids for Public Works construction projects in excess of \$1.00 must show his Contractor's License Number on the front of the bid envelope, except for certain projects for which a Contractor's License Number is not required by the State Contractor's Licensing Board. Failure to comply with this directive shall result in automatic bid rejection, furthermore, any Contractor who submits a bid for a type of construction for which he is not properly licensed shall be acting in violation of LA R.S. 37:2163, and shall be subject to all provisions for violation and penalties thereof. Contractors who are owned by, and are submitting a bid as a subsidiary of a parent company, whose name is listed in the State of Louisiana's Roster of Licensed Contractors, may do so by including a letter of proof of ownership from the parent company with the submitted bid package. The letter must be signed as per LA R.S. 38:2212 B.(5)(a)(b)(c) (see Item #22 below).

22. All bids submitted via USPS (registered or certified), overnight courier or hand delivered, shall be signed by hand and in ink by an authorized company representative per LA R.S. 38:2212 B.(5)(a)(b)(c), which states:

(c)(i) Evidence of agency, corporate, or partnership authority shall be required for submission of a bid to the division of administration or the State of Louisiana. The authority of the signature of the person submitting the bid shall be deemed sufficient and acceptable if any of the following conditions are met:

(aa) The signature on the bid is that of any corporate officer listed on the most current annual report on file with the Secretary of State, or the signature on the bid is that of any member of a partnership or partnership in commendam listed in the most current partnership records on file with the Secretary of State.

(bb) The signature on the bid is that of an authorized representative of the corporation, partnership, or other legal entity and the bid is accompanied by a corporate resolution, certification as to the corporate principle, or other documents indicating authority which are acceptable to the public entity.

(cc) The corporation, partnership, or other legal entity has filed in the appropriate records of the Secretary of State in which the public entity is located, an affidavit, resolution, or other acknowledged or authentic document indicating the names of all parties authorized to submit bids for public contracts. Such document on file with the Secretary of State shall remain in effect and shall be binding upon the principal until specifically rescinded and canceled from the records of the office.

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

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**General Conditions for Bidders - Please Read Carefully (Continued)**

23. In-State preferences shall not apply to procurements involving federal funds.
24. Pursuant to LA R.S. 38:2212 O.(2)(a)(b), any modifications of plans and specifications will be made through an addendum. No addendum shall be issued within seventy-two (72) hours of the bid opening, excluding weekends and legal holidays, without the extension of the bid opening date. An extension of at least seven (7) but no more than thirty (30) working days is required but, re-advertising is not required. The addendum shall be transmitted by any one of the following methods: (1) facsimile transmission; (2) e-mail; (3) by hand; or (4) posted on the City of Alexandria's website ([www.cityofalexandria.com](http://www.cityofalexandria.com)) and posted on Central Bidding's website ([www.centralauctionhouse.com](http://www.centralauctionhouse.com)) if applicable.
25. All Federal Transit Administration (FTA) funded procurements, including operating assistance funding contracts, are to follow the *Master Agreement*, to include all applicable federal clauses.
- a. Any bidder that is found listed on the Federal Government's *System for Award Management* (SAM) website, at [www.sam.gov/portal/sam](http://www.sam.gov/portal/sam), under the advanced search feature for *Excluded Parties List System* (EPLS), shall automatically be rejected for the award of this bid, by Category and/or in its entirety. This applies to any portion of the bid that is a procurement funded by FTA.
26. Under the City's *AFEAT (Alexandria Fairness, Equality, Accessibility, and Teamwork Program)*, participation by minority and/or disadvantaged business enterprise firms is encouraged. Inquiries about the *AFEAT* Program should be directed to the Division of Finance. As a part of its RFP response, each Bidder ***shall*** submit documentation of its bona fide effort to secure subcontractors that meet the City's *AFEAT* goals. Each bidder ***shall*** also submit proof of engagement of any subcontractor selected because of its solicitations. The Bidder's bona fide efforts and engagement(s) are a consideration in bid review and rating.

CITY OF ALEXANDRIA

DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

IV. BID FORM

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

City of Alexandria Bid # 2268  
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**IV. Bid Form**

Note:

1. Part numbers and descriptions are based off of Wartsila North America Spare Part Catalog.
2. Product data sheets for each Wartsila North America Part number are included in Appendix A to this Bid Form and shall be for illustrative purposes only.
3. If Bidder is not able to provide a price for a certain Spare Part, Bidder shall denote such by writing "N/A" in the "Unit Cost" Column of the Bid Form.
4. Prices shall **NOT** include freight costs or DDP-Hub/U.S. Duties; only goods. All freight and DDP-HUB/ U.S. Duties charges will be determined on an order-by-order basis, dependent on the volume and weight of the particular spare parts order; with shipping charges mutually agreed upon prior to processing Purchase Order. Anticipate all shipments to the City of Alexandria Electric Production Department at 1011 N Third Street, Alexandria, LA 71303, unless otherwise directed by the City.
5. Prices are US Dollars as of the date of Bid Submission and subject to exchange rate modifications as noted herein.
6. Bids will be awarded by specific item, category, or total low bid, whichever is most beneficial to the City.
7. Exchange Rate: All amounts payable and calculations under this Agreement shall be in United States dollars. Where amounts payable or calculated under this Agreement are in a currency other than United States dollars, conversion of such amounts to United States dollars shall be made at the conversion rate as reported in the Wall Street Journal on the last working day of the applicable calendar month. Such payments shall be without deduction of exchange, collection or other charges.
8. Price Adjustments: The Unit Cost for each item shall be automatically adjusted on an on-going basis based on the exchange rate as described above without further action on the part of the parties.

The Unit Cost for each Bid Item for each Purchase Order shall be determined as follows:

$$UC = \frac{(BP * BER)}{ER}$$

Where,

UC = Unit Cost for the Line Item for the current Purchase Order in United States Dollars;

ER = Exchange Rate for converting United States Dollars to the applicable foreign currency as reported in the Wall Street Journal on the last working day of the most recent calendar month as of the date of the Purchase Order;

BP = Bid Price for the Line Item in United States Dollars; and

BER = Base Exchange Rate for converting United States Dollars to the applicable currency as reported in the Wall Street Journal as of the Bid Date.

If Contractor wishes to have the price adjusted based on an Exchange Rate, the Contractor must indicate the foreign currency the price adjustment will be

based on here: \_\_\_\_\_ (British Pound, Euro, etc.)

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

City of Alexandria Bid # 2268  
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Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 1 - Engine Safety Spare Parts</u></b>				
1	100 003	Antipolishing Ring	1 x _____	/ea
2	100 023	O-Ring	1 x _____	/ea
3	100 110	Cylinder Liner	1 x _____	/ea
4	100 113	O-Ring	1 x _____	/ea
5	100 341	Thrust Bearing Kit	1 x _____	/ea
6	100 142	Sealing Set	1 x _____	/ea
7	100 142	Sealing Kit For Hydraulic Jack	1 x _____	/ea
8	100 342	Main Bearing Kit	1 x _____	/ea
9	111 005	Big End Bearing Shell, Lower	1 x _____	/ea
10	111 006	Big End Bearing Shell, Upper	1 x _____	/ea
11	111 016	Bearing Kit	1 x _____	/ea
12	111 010	Connecting Rod, Lower Part	1 x _____	/ea
13	111 011	Connecting Rod, Upper Part	1 x _____	/ea
14	111 015	Shim	1 x _____	/ea
15	113 001	Piston	1 x _____	/ea
16	113 009	Securing Ring	1 x _____	/ea
17	113 010	Gudgeon Pin	1 x _____	/ea

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

<b>Bid Item</b>					
<b>No.</b>	<b>Wärtsilä Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Cost</b>	
18	113 012	Piston Ring Set	1 x _____	/ea	
19	120 001	Cylinder Head Complete	1 x _____	/ea	
20	120 013	Valve Guide	1 x _____	/ea	
21	120 015	Sealing Set For Cylinder Head Replacement	1 x _____	/ea	
22	120 021	Seat Ring For Inlet Valve	1 x _____	/ea	
23	120 022	Seat Ring For Outlet Valve	1 x _____	/ea	
24	120 054	Sealing Set For Cylinder Head Overhaul	1 x _____	/ea	
25	120 095	Ignition Coil	1 x _____	/ea	
26	121 001	Exhaust Valve, Complete	1 x _____	/ea	
27	121 007	Inlet Valve, Complete	1 x _____	/ea	
28	123 001	Starting Valve	1 x _____	/ea	
29	124 002	Spark Plug	1 x _____	/ea	
30	124 043	Sealing Set	1 x _____	/ea	
31	124 044	Prechamber Control Valve	1 x _____	/ea	
32	145 001	Push Rod	1 x _____	/ea	

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

<b>Bid Item No.</b>	<b>Wärtsilä Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Cost</b>
33	145 018	Valve Tappet	1 x _____	/ea
34	156 383	Spare Part Set	1 x _____	/ea
35	156 2001	Turbocharge Shroud Ring	1 x _____	/ea
36	156 1184	Turbocharge Nozzle	1 x _____	/ea
37	156 1300	Turbocharge Short Cartridge	1 x _____	/ea
38	156 1301	Turbocharge Short Cartridge Installation Kit	1 x _____	/ea
39	164 025	Main Gas Admission Valve	1 x _____	/ea
40	164 089	Spare Part Set	1 x _____	/ea
41	181 077	Service Kit	1 x _____	/ea
42	182 062	Sealing Set	1 x _____	/ea
43	191 051	Sealing Set	1 x _____	/ea
44	200 009	Screw	1 x _____	/ea
45	200 011	Nut	1 x _____	/ea
46	200 029	Gasket	1 x _____	/ea
47	200 079	Bellows	1 x _____	/ea
48	200 081	Bellows	1 x _____	/ea
49	200 084	Screw	1 x _____	/ea



**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

<b>Bid Item No.</b>	<b>Wärtsilä Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Cost</b>
50	200 085	Nut	1 x _____	/ea
51	200 334	Positioner	1 x _____	/ea
52	200 347	Sealing Ring	1 x _____	/ea
53	202 009	Bellows	1 x _____	/ea
54	202 053	Screw	1 x _____	/ea
55	202 148	Sealing Ring	1 x _____	/ea
56	202 149	Nut	1 x _____	/ea
57	202 358	Screw	1 x _____	/ea
58	207 992	Butterfly Valve	1 x _____	/ea
59	471 063	Filter Cartridge	1 x _____	/ea
60	471 126	Sealing Set	1 x _____	/ea
61	473 081	Sealing Set	1 x _____	/ea
62	474 043	Sealing Set	1 x _____	/ea
63	476 009	Sealing Set	1 x _____	/ea
64	504 103	Knock Sensor	1 x _____	/ea
65	504 128	Temperature Sensor	1 x _____	/ea
66	507 1072	Control Unit CCM	1 x _____	/ea

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

<b>Bid Item No.</b>	<b>Wärtsilä Part No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Cost</b>
67	507 1289	Ignition Module	1 x _____	/ea
68	507 1318	Electronic Unit IOM	1 x _____	/ea
69	516 292	Control Unit	1 x _____	/ea
70	516 387	Engine Safety Module	1 x _____	/ea
71	516 541	Pressure Sensor	1 x _____	/ea
72	516 596	Fuse	1 x _____	/ea
73	516 597	Fuse	1 x _____	/ea
74	800 264	Sealing Set For Hydraulic Tightening Tool	1 x _____	/ea
75	CV519	IP-Converter	1 x _____	/ea
76	PT201	Pressure Sensor	1 x _____	/ea
77	PT401	Pressure Sensor	1 x _____	/ea
78	PT 471	Pressure Sensor, LT Water CAC Inlet	1 x _____	/ea
79	PT 601	Pressure Sensor, Charge Air Engine Inlet	1 x _____	/ea
80	PT700	Pressure Sensor	1 x _____	/ea
81	PT901	Pressure Sensor, Main Gas	1 x _____	/ea
82	PT911	Pressure Sensor	1 x _____	/ea
83	ST173	Speed Pick-Up	1 x _____	/ea

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
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Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
84	ST174	Speed Pick-Up	1 x _____	/ea
85	ST196P	Speed Sensor	1 x _____	/ea
86	ST196S	Speed Sensor	1 x _____	/ea
87	ST197P	Speed Sensor	1 x _____	/ea
88	ST197S	Speed Sensor	1 x _____	/ea
89	TE201	Temperature Sensor	1 x _____	/ea
90	TE401	Temperature Sensor, HT Water Engine Inlet	1 x _____	/ea
91	TE402	Temperature Sensor	1 x _____	/ea
92	TE432	Temperature Sensor	1 x _____	/ea
93	TE471	Temperature Sensor, LT Water CAC Inlet	1 x _____	/ea
94	TE482	Temperature Sensor, LT Water LOC Outlet	1 x _____	/ea
95	TE600	Temperature Sensor, Air TC Inlet	1 x _____	/ea
96	TE601	Temperature Sensor	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
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Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 2 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Auxiliary Modules</u>				
<u>MOD 051 - 111 W34 EAM 1-C</u>				
<u>CR SECTION - MOD-1001A</u>				
97	B00055	Fine Filter G5XP4-D	1 x _____	/ea
98	V00082	Spare Part Set Stem Seal For ARI FIG Valves	1 x _____	/ea
99	V00083	Body Gasket For ARI FIG Valves	1 x _____	/ea
100	V00086	Spare Part Set For DP34 Actuator	1 x _____	/ea
101	12EB364500003	Service Kit For Pump EBARA CDU 120/315	1 x _____	/ea
102	75204	Heating Element 54KW	1 x _____	/ea
103	77682	Heating Element 27KW	1 x _____	/ea
104	VDA009	Air Venting Valve DN15, PN10	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>
<b><u>Category 3 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Fuel Oil System</u>				
<u>Flexible Connections</u>				
<u>CR SECTION - SAG-1001A</u>				
105	FH104	Flexible Hose D28	1 x _____	/ea
106	FH108	Flexible Hose DN80	1 x _____	/ea
107	FH110	Flexible Hose DN25	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 4 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Gas System</u>				
<u>ZAC 051-111 Compact Gas Ramp</u>				
<u>CR SECTION - ZAC-1001A</u>				
108	198 0298	Filter Element For 1.78.1.160.500 DN80	1 x _____	/ea
109	303 0069	O-Ring For 1.78.1.160.500 DN80	1 x _____	/ea
110	652 001	Urea Pump Complete	1 x _____	/ea
111	B00055	Fine Filter G5XP4-D	1 x _____	/ea
112	P00016	Pressure Transmitter	1 x _____	/ea
113	T00025	Temperature Sensor	1 x _____	/ea
114	V00391	Body/ Bonnet Gasket Kit For GX VALVE DN50	1 x _____	/ea
115	V00387	Service Kit PTFE Packing Kit For GX VALVE DN50	1 x _____	/ea
116	RGX750X0032	Actuator 750 Repair Kit For GX Valve DN50	1 x _____	/ea
117	V00388	Gasket Set For GX Valve DN25	1 x _____	/ea
118	V00387	Service Kit PTFE Packing Kit For GX Valve DN25	1 x _____	/ea
119	V00483	Actuator 225 Repair Kit For GX Valve DN25	1 x _____	/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 5 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Lubricating Oil System</u>				
<u>Flexible Connections</u>				
<u>CR SECTION - SAG-1001A</u>				
120	FH213	Rubber Bellow DN40	1 x	_____/ea
121	FH214	Rubber Bellow DN40	1 x	_____/ea
122	FH701	Hose For Crankcase Vent Pipe	1 x	_____/ea
123	FH708	Flexible Hose For Natural Gas	1 x	_____/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>
<b><u>Category 6 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Engine Lubricating Oil System</u>				
<u>QBF 051- 111 OIL MIST SEPARATOR UNIT</u>				
<u>CR SECTION - QBF-1001A</u>				
124	B00032	Service Kit 1	1 x	_____/ea
125	B00035	Service Kit 2	1 x	_____/ea
126	B00037	Service Kit 4	1 x	_____/ea
127	0100-3L-0008-4-X+FBIE+A1133+HMGR+GSSE	Converter VACON0100-3L-0008-4-X+HMGR+FBIE	1 x	_____/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 7 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Compressed Air System</u>				
<u>Flexible Connections</u>				
<u>CR SECTION - SAG-1001A</u>				
128	FH301	Flexible Hose DN32	1 x	_____ /ea
129	FH311	Flexible Hose OD12	1 x	_____ /ea
<u>TSA 901 STARTING AIR UNIT DUAL WP311L</u>				
<u>CR SECTION - TSA-1001A</u>				
130	WP311L-6KF	Supplier Recommended Safety Spare Parts	1 x	_____ /ea
<u>TSB 901- 904 STARTING AIR BOTTLE</u>				
<u>CR SECTION - TSB-1001A</u>				
131	00100	Supplier Recommended Safety Spare Parts	1 x	_____ /ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 8 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Cooling System</u>				
<u>Flexible Connections</u>				
<u>CR SECTION - SAG-1001A</u>				
132	FH401	Rubber Bellow DN125	1 x	_____/ea
133	FH402	Rubber Bellow DN125	1 x	_____/ea
134	FH404	Flexible Hose OD12	1 x	_____/ea
135	FH406	Rubber Bellow DN40	1 x	_____/ea
136	FH414	Rubber Bellow DN125	1 x	_____/ea
137	FH416	Flexible Hose OD12	1 x	_____/ea
138	FH451	Rubber Bellow DN125	1 x	_____/ea
139	FH4831	Flexible Hose OD12	1 x	_____/ea
140	FH4832	Flexible Hose OD12	1 x	_____/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>



**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 9 - Auxiliary Systems Safety Spare Parts</u></b>				
Engine Cooling System				
VEA 051- 111 EXPANSION VESSEL				
<u>CR SECTION - VEA-1001A</u>				
141	VEA003	Level Switch	1 x	_____/ea
VCA 051- 112 RADIATOR				
<u>CR SECTION - VCA-1001A</u>				
142	946 0005 842	Safety Switch KEM316U/U3/EMC	1 x	_____/ea
143	946 0065 948	Fan Motor W-DA284T-F PAD 480/60 NEMA	1 x	_____/ea
144	946 0065 949	Fan Blade MW1236/5-5/42/PAG/2WL/41,275/9,525/A	1 x	_____/ea
145	6308-C3	6308-C3 Bearing	1 x	_____/ea
146	6310-C3	6308-C3 Bearing	1 x	_____/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 10 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Plant Cooling System</u>				
VBA 901- 902 MAINTENANCE WATER TANK				
<u>CR SECTION - VBA-1001A</u>				
147	120 098	Flange	1 x _____	/ea
148	181 001	Lubricating Oil Pump Compete	1 x _____	/ea
149	182 018	Pre Lubricating Oil Pump Compete	1 x _____	/ea
150	182 017	Flexible Coupling	1 x _____	/ea
151	191 001	HT Water Pump Compete	1 x _____	/ea
152	191 002	Lt Water Pump Compete	1 x _____	/ea
153	191 056	Shaft (HT, LT Pumps)	1 x _____	/ea
154	12EB364500003	Service Kit For Pump EBARA CDU 120/315	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 11 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Charge Air System</u>				
NGA 051-111 CHARGE AIR FILTER DL-16-F5				
<u>CR SECTION - NGA-1001A</u>				
155	CV321	Solenoid Valve	1 x	_____/ea
156	CV331	Solenoid Valve	1 x	_____/ea
157	357 017	Main Starting Valve	1 x	_____/ea
158	217 048	Main Starting Valve Repair Kit	1 x	_____/ea
159	592*592*360/6 F5	AIRBAG 592X592X360/6 F5	1 x	_____/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>
<b><u>Category 12 - Auxiliary Systems Safety Spare Parts</u></b>				
<u>Exhaust Gas System</u>				
<u>Flexible Connections</u>				
<u>CR SECTION - SAG-1001A</u>				
160	FH501	Exhaust Gas Bellow DN500	1 x	_____/ea
NHA 051- 111 EXHAUST GAS MODULE				
<u>CR SECTION - NHA-1001A</u>				
161	4437-1	Flow Switch	1 x	_____/ea
162	435510142-30	Ventilation Fan	1 x	_____/ea
163	131-14	Bellow	1 x	_____/ea

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
		NHA 010 PSE 001- 003 RUPTURE DISC <u>CR SECTION - NHA-1001A</u>		
164	124 026	Pre Chamber Control Valve Seat	1 x	_____ /ea
165	124 028	Pre Chamber Control Valve	1 x	_____ /ea
166	124 029	Pre Chamber Control Valve Rod	1 x	_____ /ea
167	124 034	Pre Chamber Control Valve Yoke	1 x	_____ /ea
168	124 025	Pre Chamber Control Valve Guide	1 x	_____ /ea
169	124 032	Pre Chamber Control Valve Spring	1 x	_____ /ea
170	501 108	Spare Part Kit For Ignition Coil	1 x	_____ /ea
171	124 001	Pre Chamber Compete	1 x	_____ /ea
172	289 276	Nox Sensor	1 x	_____ /ea
173	164 125	Cartridge Set (Gas Admission Valve)	1 x	_____ /ea
174	SE518	Turbo Sensor	1 x	_____ /ea
175	67111620003-S / CV-S-I-LW-RI D	Rupture Disc (Set) CV-S-I-LW-RI DN 1200	1 x	_____ /ea
<b>CATEGORY TOTAL:</b>				<b>\$</b> _____

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

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Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 13 - Safety Spare Parts for Flexible Coupling DCB - GS 658.5 SM50</u></b>				
<b><u>CR SECTION - SAE-1001A</u></b>				
176	358 4438	Tube GS 8.5 - Material No. PA AE031447	1 x _____	/ea
177	358 4441	Rubber Block 8.5 SM50 - Material No. PA AE 049601	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>
<b><u>Category 14 - Safety Spare Parts for Generator AMG 1120LT10 DSE</u></b>				
<b><u>CR SECTION - BAG-1001A</u></b>				
178	989 3305	Operational Spare Part Package For AMG 1120 Serial No.: 4639159-65 Material No.: PA AE178180 Including:	1 x _____	/ea
		1. AVR	1	
		2. Rectifier Diode (Set)	1	
		3. Varistor	1	
		4. Air-Filters (Set)	1	
		5. Bearing RTD	1	
		6. Bearing Shell (Suitable For DE & NDE)	1	
		7. Bearing Oil Ring	1	
		8. Bearing Labyrinth Seal	1	
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:  
DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

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Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 15 - Safety Spare Parts for Control System</u></b>				
<b><u>CR SECTION - BFA-1001A</u></b>				
179	9AFP300842-CACZ-CFA	CFA 901 COMMON CONTROL PANEL Supplier Recommended Safety Spare Parts Material No.: PAAR297173	1 x _____	/ea
<b><u>CR SECTION - CFC-1001A</u></b>				
180	9AFP300842-CACZ-CFC	CFC 051- 111 GENSET CONTROL PANEL Supplier Recommended Safety Spare Parts Material No.: PAAF297174	1 x _____	/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>
<b><u>Category 16 - Safety Spare Parts for EAM Panel</u></b>				
<b><u>CR SECTION - BJA-1001A</u></b>				
181	9AFP300842-CACZ-BJA	BJA 051- 111 ENGINE AUXILIARY MODULE PANEL Supplier Recommended Safety Spare Parts Material No.: PAAF297175	1 x _____	/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>
<b><u>Category 17 - Safety Spare Parts for Frequency Converters, Radiators</u></b>				
<b><u>CR SECTION - BLP-1001A</u></b>				
182	NXP02615A2H0SSFA1A20000CI	BLP 051- 111 FREQUENCY CONVERTER Frequency Converter Unit Material No.: PAAF109778	1 x _____	/ea
<b>CATEGORY TOTAL:</b>				<b>\$ _____</b>

**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 - SPARE PARTS - ELECTRICAL DISTRIBUTION**

Bid Item No.	Wärtsilä Part No.	Description	Qty	Unit Cost
<b><u>Category 18 - Spare Parts for Turbo Charger</u></b>				
183	156 2094	Compressor Outlet Casing	1 x _____	/ea
184	156 2005	Diffuser	1 x _____	/ea
185	156 1019	Compressor Insert	1 x _____	/ea
186	SE528	Speed Pick-Up	1 x _____	/ea
187	Cable for SE528	Cable Set	1 x _____	/ea
188	156 2070	Packing Ring	1 x _____	/ea
189	156 500	O-Ring	1 x _____	/ea
190	156 501	O-Ring	1 x _____	/ea
191	156 1184	Nozzle	1 x _____	/ea
			<b>CATEGORY TOTAL:</b>	<b>\$ _____</b>

CITY OF ALEXANDRIA

DG HUNTER UNITS 5-11 - SPARE PARTS  
ELECTRIC PRODUCTION

## V. BID SPECIFICATIONS



**CITY OF ALEXANDRIA BID SPECIFICATIONS FOR:**  
**DG HUNTER UNITS 5-11 – SPARE PARTS – ELECTRIC PRODUCTION**

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**VI. BID SPECIFICATIONS**

1. SCOPE: The following bid specifications are to be used as minimum and maximum standards for DG HUNTER UNITS 5-11 ó SPARE PARTS ó ELECTRIC PRODUCTION. All quoted products shall either meet or exceed the following specifications.
2. Unless otherwise stated, the use of manufacturer's name and product numbers are for descriptive purposes and to establish general quality levels only, they are not intended to be restrictive.
3. The purpose of this bid is to secure pricing on Spare Parts, for use by the City of Alexandria Electric Production Department for the Wärtsilä Reciprocating Internal Combustion Engines and ancillary parts.
4. Successful Bidders agree to honor the quoted prices for a minimum one (1) year period from bid award date. Contingent upon the availability of funds and the ability of the successful Bidders to honor the quoted prices, the City reserves the right to renew the existing contract for an additional two (2) years in one (1) year increments with a thirty (30) day funding out clause. Not less than forty-five (45) days before the end of the Contract term, the successful Bidders shall notify the City, in writing, of their intentions with respect to renewal.
5. Parts Manufacturer: The existing plant was constructed utilizing Wärtsilä equipment as such the Bid Specifications for Spare Parts are developed around specific Spare Parts manufactured by Wärtsilä or authorized Wärtsilä Affiliates. Certain parts are easily substituted and can be priced by other suppliers, assuming 100% compatibility with the original installed equipment.
6. Product Data Sheets: The Product Data Sheets for the individual Spare Parts being priced is attached as Appendix A. Note that the Product Data Sheets are not all inclusive of every Spare Part noted on the Bid Form