Lee County Board Of County Commissioners Agenda Item Summary Blue Sheet No. 200500914

- 1. ACTION REQUESTED/PURPOSE: Approve award of formal quotation (RFP B&R 2661-SM126) and issuance of a purchase order to Compressed Air Company, Inc. (Comairco), the low price proposer, meeting all specification requirements for two air compressors and related equipment, in an amount of \$114,796.00, plus a not-to-exceed allowance of \$5,000 for field service start-up assistance.
- 2. WHAT ACTION ACCOMPLISHES: Provides the necessary air compressor equipment for the waste to energy expansion project.
- 3. MANAGEMENT RECOMMENDATION: Staff recommends approval of the requested motion.

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4. De	epartmental Category	: 8	(8)		5. Meeting Date:	06-28-2005
6. A	genda:	7. Req	uirement/Purpos	e: (specify)	8. Request Initia	ted:
X	Consent		Statute		Commissioner	
	Administrative		Ordinance		Department	Public Works
	_ Appeals	X	Admin. Code	4-1	Division	Solid Waste
	Public		Other		By: Lindse	y J. Sampson/
	Walk-On				Thom	lang Sanga

9. Background: Sealed quotes were received by the County's design engineer, Burns & Roc, on behalf of the Solid Waste Division on April 22, 2005. On that date three (3) responses were received. After review, recommendation was made to award to the low-priced proposer meeting all specification requirements. Note, evaluated pricing includes a factor for energy consumption during normal operation. Although Comairco has a penalty of \$10,198.00, it is still the low priced vendor.. Backup documentation refers to an adder of \$1,225 for an optional performance bond. The Solid Waste Division does not want to make use of this option.

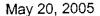
Funds are available in account string: 200923 40102.506540

Attachments: Burns & Roe bid evaluation dated 5/20/2005

Tabulation sheet

Covanta Comments on the B&R bid evaluation dated 6/3/2005

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LEE COUNTY WTE EXPANSION PROJECT FORT MYERS, FLORIDA

RFP 2661-SM126 AIR COMPRESSORS

BID EVALUATION

Burns and Roe Enterprises, acting on behalf of Lee County issued Request for Proposal No. 2661-SM 126 "Air Compressors" on March 22, 2005 to the following pre-approved bidders: Atlas Copco; Comairco; Gardner Denver; and Scales. Gardner Denver declined to bid.

On April 22, 2005 bids were received from:

- -Atlas Copco proposal #4545/0405/6BMRC3 dated 4/22/05
- -Scales Air Compressor proposal dated \$/20/05
- -Comairco (Sullair) proposal dated 4/22/05

Bids were opened and recorded on the Proposal Opening Form included here as Attachment A. Attachment B is the Bid Abstract comparing bid prices and adjustments made thereto.

RECOMMENDATION:

The recommended award of the contract is to Compressed Air Company (COMAIRCO). Recommended award price is \$114,796 FOB Jobsite, Freight Prepaid and Allowed and excludes cost of Bonds and Sales or Use Tax.

Base Price, as bid \$103,865

Adjust to comply with Specifications \$ 10,931.

Recommended Award Price: \$114,796.

BID EVALUATION 2661-SM126 "Air Compressors" (cont'd...)

COMMERCIAL EVALUATION:

Two (2) of three (3) bids were reviewed based on bidder's compliance with the Scope of the RFP and Contract terms and conditions and price. Engineering determined

Atlas Copco's... After an initial review and questions, engineering determined bid does not meet the specifications, incomplete, and non-competitive. No further consideration or commercial review was conducted.

Scales Air... Extensive questions were requested of Scales for equipment to comply with the specifications. As a result, Scales bid was deemed technically unacceptable by engineering. In addition, Scales pricing with adjustments is 29% higher than the low bidder.

Comairco...base price was low. Technical adjustments to Comairco's submittal increase bid by \$10,931. This included combination starter/breaker, larger dryer to meet requirements and a third air receiver. Including these adjustments Comairco is approximately 29% low. Power consumption factor of \$10,198 was applied to Comairco's pricing. Comairco offered a Performance/Payment Bond at a \$2,650 additional cost. Field Service rate is \$680 per day plus out of pocket (travel, subsistence) costs. Submittal of approval drawings/documents is 21 days after receipt of order. Delivery is May 15, 2006 consistent with project schedule.

Commercially, Comairco has proposed the following terms:

Payment Terms: 25% - engineering and approved drawings complete

25% - upon release to manufacture (Feb. 2006)

50% - delivery at site

Delivery: May 15, 2006

Comairco pricing is valid till June 15, 2005.

Comairco accepts the Services/Goods Purchase Conditions.

		LEE COUN	LEE COUNTY, FLORIDA PROPOSAL OPENING FORM	
RFP NUMBER 2661-SM-147				DATE 4.25.05 TIME 230 pm
Bidder	Proposal Date	Date Received	Unevaluated Price	Remarks
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Note			BID	BID ABSTRACT	AIR	AIR COMPRESSORS				
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Date: May 18, 2005 By: J.Ferrero

TECHNICAL BID EVALUATION REQUEST FOR PROPOSAL No. 2661-SM-126 AIR COMPRESSORS

SUMMARY

Request for Proposal was sent to four bidders: Garden Denver, Comairco Equipment (Sullair compressors), Scales Air Compressor (Quincy compressors) and Atlas Copco. Garden Denver declined to bid. Proposals from the other three bidders were received and evaluated.

A preliminary evaluation was performed on all proposals received. The preliminary evaluation indicated that the proposals from Comairco and Scales were substantially complete. The proposal from Atlas was incomplete. Based on the preliminary evaluation, a list of questions/comments was sent to each Bidder. The equipment initially proposed by Atlas was considerably oversized. Therefore, as a result of this, and the fact that the proposal was incomplete, Atlas needed to re-bid the entire proposal.

The full evaluation indicated that the equipment offered by Comairco was technically acceptable, and the one from Scales and Atlas was not acceptable.

TECHNICAL DISCUSSION

GENERAL

After receiving the proposals it was concluded between Covanta and BREI that a third "wet" air receiver upstream of the dryer would be advantageous for the installation. This approach provides additional surge capacity and assures a more steady flow through the dryer circuit. Therefore, bidders were requested to provide optional price for a third air receiver, identical to the two initially included in the proposal. The third receiver is included as a recommended option in this evaluation.

The compressors will be installed inside the turbine building. The specification, under project specific requirement 3.8, indicates that the source of air is from outside the turbine building. This requires ducting the outside air up to the compressors' inlet. This requirement was discussed with Covanta, and it was concluded that since the turbine building is a relatively clean area, the compressors could take suction directly from inside the building without the need of any ductwork. Refer to D. Anacker e-mail of 4/29/05 for more details. Therefore, the project specific requirement 3.8 was not taken into consideration in this evaluation, and the same should be deleted from the specification.

Similarly, since the compressors would be installed in the turbine building, Covanta indicated that, unless required for sound attenuation purposes, a compressor enclosure would not be required. BREI agrees with this approach. Comairco and Scales were requested to quote an option for the removal of the enclosure if not needed to meet

noise limits. The two bidders indicated that the enclosure was required to meet sound levels.

Both, Comairco and Scales, proposed the compressors with inlet valve modulation for flow control capability. The equipment from Atlas did not provide this feature; it would operate in a load/unload mode only.

Comairco Proposal:

The original proposal required some clarifications. With the additional clarifications, it was found that the equipment proposed by Comairco included some exceptions. After evaluating all exceptions, it is BREI's recommendation that they be accepted. For details on the exceptions refer to Attachment 2.

A combination motor starter/breaker, as required per the specification, was not included in the original proposal. It was offered subsequently as an option (considered as a price adjustment in Attachment 4).

The original mist eliminator proposed did not meet efficiency requirements. Subsequently, Comairco offered a Hankinson mist eliminator, at no extra cost, that meets the efficiency requirements. Similarly, the original dryer did not meet capacity requirements and Comairco offered a larger one, at an extra cost, to meet capacity. The mist eliminator is identical to the one proposed by Scales.

The cooling water flow required was slightly larger than the one required by Scales (66 gpm vs. 50 gpm). However, it shall be pointed out that, with 50 gpm, Scales does not meet specification requirements and BREI calculated that Scales' compressors would need approx. 75 gpm to meet specification requirements. In any case, this differential in water flow is negligible from the operating cost point of view; therefore, it has not been included as an evaluated cost in this evaluation.

The combined power consumption of compressor motor plus electric heater is 114 Kw.

Scales Proposal:

The original proposal required some clarifications. With the additional clarifications, it was found that the equipment proposed by Scales included some exceptions. After evaluating all exceptions, BREI deemed two of them as not acceptable. For details on all the exceptions refer to Attachment 2.

The original compressor proposed did not meet capacity requirements. Subsequently, Scales proposed a larger compressor that did not meet capacity either. However, it was approximately 2% short in capacity (492 scfm proposed vs. 500 scfm specified). BREI did not consider this deficiency a reason to disqualify this bidder.

The originally proposed dryer did not meet capacity requirements (600 scfm @ 110 psig and 120 °F). Scales was notified of this shortcoming. Subsequently, Scales proposed a larger dryer, at an additional cost, that still did not meet capacity. The larger dryer had a capacity of approximately 450 scfm at design conditions.

The design of the compressor's coolers is such that the cooling water outlet temperature is 125 °F. Per the specification, the maximum allowable temperature is 115 °F. If the water flow were to be increased to maintain the outlet temperature below 115 °F, it is BREI's estimate that the pressure drop throughout the coolers would exceed the maximum 10 psi specified. Consequently, BREI concluded that the coolers are not large enough.

The initial motor proposed by Scales was not from an approved manufacturer as listed in the specification. Subsequently, Scales proposed a different motor, at an additional cost, manufactured by Siemens. This is an approved manufacturer. However, Scales did not submit the corresponding motor data sheet.

Considering the above, the equipment proposed by Scales, was deemed not acceptable.

Atlas Copco Proposal:

The initial proposal from Atlas was incomplete and included an oversized compressor. Therefore, Atlas was asked to provide a complete revised proposal based on the correct compressor capacity. A preliminary review of the revised proposal submitted by Atlas revealed that it was still incomplete, filled-in Attachment 2 of SM-126 was never submitted and attachment 2 of SE-211 was submitted blank. The revised proposal included an undersized compressor and the proposed mist eliminator did not meet the maximum oil carry over limit. Further, the quoted price (\$141,665.00) was approximately 25 % higher than the lowest bidder. As a result of this it was decided not to give further consideration to the Atlas proposal and concentrate in the remaining two bidders. Consequently, a full evaluation of the Atlas proposal was not performed, a summary of Atlas' exceptions and resolution was not prepared, and the total adjusted equipment cost shown in Attachment 4 shall be considered approximate.

PERFORMANCE EVALUATION

The proposals submitted indicate that the proposed equipment from Comairco would meet the required performance, which includes:

- Minimum air flow capacity at compressor discharge rated pressure of 125 psig
- Air dew point downstream of dryers
- Air pressure at outlet of after-filter
- Mist eliminator efficiency
- Pre-filter and after-filter efficiency
- Compressor's oil/hydrocarbon carryover

The equipment offered by Comairco meets the above with an additional use of power of approximately 2.8 Kw over the equipment offered by Scales (114 Kw vs. 111.2 Kw). This additional power has been taken into consideration as an evaluated cost in the pricing summary.

PRICING EVALUATION

Refer to Attachment 4 – Pricing Summary. Comairco is the lowest bidder for the equipment with the corresponding required options and the BREI's recommended options included. The total adjusted equipment cost of Comairco's equipment with the recommended options is approximately 30% less than the equipment offered by Scales. Comairco is also the bidder with the lowest evaluated cost (19% less than Scales). This difference in price between Comairco and Scales would be larger had Scales been asked to re-bid the equipment to include larger dryer and compressor coolers to meet the specification.

Although not indicated in the specification, the use of a third "wet air" receiver upstream of the dryer has been discussed between Covanta and BREI. The price of this receiver is included as a "recommended option" in Attachment 4.

RECOMMENDATION

The equipment proposed by Comairco, with the required options offered, was found technically acceptable. The equipment proposed by Atlas and Scales was found not acceptable. Although the non-conformance components of the equipment proposed by Scales could be revised to bring the entire package up to specification; considering the current price differential, it was concluded that this exercise was not necessary at this point, unless formal commercial evaluation dictates otherwise.

Comairco is the recommended bidder as the only one with technically acceptable equipment and with the lowest total adjusted equipment cost.

The equipment from Comairco must be purchased with the following required and recommended options:

- One additional air receiver (total 3 receivers. Recommended option)
- Combination starter/breaker (required option with price adjustment)
- Hankinson mist eliminator (required option, no price adjustment)
- Larger dryer (TWP1000. Required option with price adjustment)

Date: May 18, 2005 By: J. Ferrero

TECHNICAL BID EVALUATION REQUEST FOR PROPOSAL No. 2661-SM-126 AIR COMPRESSORS ATTACHMENT 1 – APPLICABLE DOCUMENTS

Lee County RFP No. 2661-SM126

Burns and Roe Documents:

E-mail form D. D'Amico to Comairco, dated 4/30/05; initial questions/comments E-mail form D. D'Amico to Comairco, dated 5/6/05; follow-up questions/comments E-mail form D. D'Amico to Comairco, dated 5/10/05; additional questions/comments (breaker requirements and dryer size) E-mail form D. D'Amico to Comairco, dated 5/16/05, request for revised electrical diagram

E-mail form D. D'Amico to Scales, dated 5/2/05; initial questions/comments E-mail form D. D'Amico to Scales, dated 5/6/05; follow-up questions/comments E-mail form D. D'Amico to Scales, dated 5/10/05; additional questions/comments (breaker requirements)

E-mail form D. D'Amico to Atlas, dated 5/2/05; initial questions/comments (request for requite

Covanta Documents:

E-mail from D. Anacker to BREI, dated 4/29/05, source of inlet air E-mail from D. Anacker to BREI, dated 5/4/05, overall comments to proposals E-mail from D. Anacker to BREI, dated 5/4/05, flow control comments E-mail from D. Anacker to BREI, dated 5/6/05, comments on revised proposal from Atlas E-mail from D. Anacker to BREI, dated 5/6/05, comment on oil/water removal requirements

Comairço Documents:

Proposal dated April 22, 2005.
E-mail to BREI, dated 5/5/05; response to initial BREI's questions/comments
E-mail to BREI, dated 5/9/05; response to follow-up BREI's questions/comments
Fax to BREI, dated 5/9/05, motor data sheet
E-mail to BREI, dated 5/11/05; response to breaker and dryer questions
Fax to BREI, dated 5/17/05, revised electrical diagram

E Mail 1 5/20/05
Scales Documents:

Proposal dated April 20, 2005
Fax to BREI, dated 5/4/05; response to initial BREI's questions/comments
Fax to BREI, dated 5/13/05; response to follow-up BREI's questions/comments

Atlas Copco Documents:

Original Proposal dated April 20, 2005 Revised Proposal dated May 6, 2005

Date: May 18, 2005 By: J. Ferrero

ATTACHMENT 2 - SUMMARY OF TECHNICAL EXCEPTIONS AND CLARIFICATIONS RFP No. 2661-SM-126 - AIR COMPRESSORS

BIDDER: COMAIRCO

Technichal Exception/Clarification	BREI Response/Resolution
The male rotor speed of proposed compressor is 2100 rpm. The specification requires maximum 1800 rpm.	Sulfair air compressors are of proven reliability and should not be disqualified on the ground of exceeding the specified maximum rpm. BRE recommends this exception be accepted.
Coolers proposed are not ASME Code coolers nor have removable Considering the size of the coolers, ASME Code is not required, tube bundles. Also, for this size coolers BREI considers that the removable tubes does not have to be a must. The entire cooler could be removed, cleaned and reinstalled without major work. BREI recommends this exception be accepted.	Considering the size of the coolers, ASME Code is not required, Also, for this size coolers BREI considers that the removable tubes does not have to be a must. The entire cooler could be removed, cleaned and reinstalled without major work. BREI recommends this exception be accepted.
Purge air is approx. 7%. The Specification requires maximum 4%.	The 4% is too stringent. Available standard air purge rate for heated dryers is typically 15%, with upgraded models requiring 6%-7%. BRE recommends this exception be accepted.
The mist eliminator would be shipped loose for field installation by Others in the piping between compressor skid and air receiver.	This is an exception taken by all Bidders. The compressor skids are of a compact design and do not have extra room for additional/optional equipment. BREI recommends this exception be accepted.
Mist eliminator proposed, Sullair ME600 doer not meet efficiency requirements	Exception not acceptable. Subsequently, Comairco offered as an option mist eliminator Hankinson MM3. This eliminator meets efficiency requirements. Therefore, this exception would be resolved by exercising the option.

ATTACHMENT 2 - SUMMARY OF TECHNICAL EXCEPTIONS AND CLARIFICATIONS RFP No. 2661-SM-126 - AIR COMPRESSORS

BIDDER: SCALES AIR COMPRESSORS

Technichal Exception/Clarification	BREI Response/Resolution
Coolers are not ASME Code designed or stamped as per SM-126, Because the size of the coolers, ASME Code is not required, not	Secause the size of the coolers, ASME Code is not required, not
2.4.1.	avauable from the Mift. BKEI recommends this exception be accepted.
Coolers have the water in the shell.	The specification requires the water in the tube side. Considering the size of the proposed coolers, BREI recommends this execution he accented
The mist eliminator would be shipped loose for fleid installation by Others in the piping between compressor skid and air receiver.	This is an exception taken by all Bidders. The compressor skids are of a compact design and do not have extra room for additional/optional equipment. BREI recommends this exception be accepted.
Temperature gauges on dryer skid were not included.	Subsequently, Scales offered the gauges as an option. Therefore, this exception would be resolved by exercising the option.
The proposed compressor has a capacity of approximately 492 sofm at 125 psig disch, and 120 oF inlet temp. (max. temp.)	This is the second unit proposed by Scales. The first one had an approx. capacity of 445 scfm, which did not meet spec. requirement. The second unit proposed does not meet capacity (500 scfm) either, however the defficiency is approximately 2%. BREI recommends this exception be accepted.
Purge air is approx. 7%. The Specification requires maximum 4%.	The 4% is too stringent. Available standard air purge rate for heated dryers is typically 15%, with upgraded models requiring 6%-7%. BRE recommends this exception be accepted.
The temperature of CC water return would be 125 degrees F. The Specification requires maximum 115 degrees F.	This exception is not acceptable. The size of the coolers should be increased. With the proposed coolers, to maintain the maximum 115 degrees F, approximatelly 75 gpm would have to be run throughout the coolers. BREI estimated that this would result in a pressure drop of more than 10 psf, which is the maximum allowed per the Specification.
The inlet air filter is not a two stage type filter.	Scales indicated that the proposed filter, manufactured by Donaldson, is the typical standard heavy duty filter used by Scales with their Quincy compressors. BREI recommends this exception be accepted.
The capacity of the proposed air dryer is 549 sofm at 110 psig and 120 degrees F. The Specification requires the capacity to be 600 sofm.	Scales originally proposed a dryer with a capacity of approx. 370 scfm at design conditions. As a result of the non-conformance, Scales proposed a larger dryer that still does not meet specification requirements. This exception is not acceptable.

Package

Disch. Size/Rating Disch. Location

TECHNICAL BID EVALUATION
ATTACHMENT 3 - TECHNICAL COMPARISON
RFP No. 2661-SM 126 - AIR COMPRESSORS

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

					٠				-										,		<u> </u>
SCALES		الماساس الماسات		(1) 492 SCFH 549 ACFN	1A1	0.67	DUCTURE IRON	2.00 KT	3600	1185	417		GREY I CON	DUSTILE TILES	DUCTURE TILES	TApered Roller	S.D.H. execute	Temple Lip	*	12 N	in Package
COMAIRCO	Ć	JULAIR	LS2005-125HWC	587 AGM / 500 Sept	6.241	1 72/00/22.4	SPEEL	204 mm	N/A	WIR	N/A		CAST IRON	STEEL	SYEEL	Rower	I APPERET	Dougle Lie		N/P-	PACKAGE MAD.
A. PLANT AND INSTRUMENT AIR COMPRESSOR	Compressor Data	Manufacture	Model	Rated Capacity et 125 paig, seem	BHP at rated capacity and 125 psig	Male Rotor Speed (rpm)/Tip Speed (ft/sec)	Rotor Construction	Rotor Dia. In.	Critical Speed, 1pm	Max. Cont Speed, rpm	Max. Casing Temp., "F	Matenals	Casing	Rotor	Shafi	Radial Bearings: Type	Thrust Bearings: Type	Seals: Type	Fiange Connections	Inder Size/Rating	Injet Location

REHARKS

(I) EXCEPTION TOKEN. SEE ATTACHMENT? FOR DETRILS.

	REMARKS	EXCEPTION TAKEN. SEE ATTACHMENT 2 FOR DETAILS.		•			-				:														SHT 2/9
	epain was well.	(1) EXCEPTION TAKEN. 3L		i Markin nguya	en den duck of states.			Chromosoppi		en sentang kenta			·	Haritations	المراضعة والمراجعة والمراجع والمراجع والمراجعة والمراجعة والمراجع والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراج	e har innamenta			· · · · · · · · · · · · · · · · · · ·	n, graden mys est a	ggs-fraudryman y	· ·	n n n n n n n n n n n n n n n n n n n	era wiziri.	* N/F857-LNe
	SCALES	Rexcom	7 8 8		4 2	4 2	Yes	(6.5)	0 2		Tack Hours	Thur Hours		Foot Hourt			×	-	مع ما	त्रवर्ष प्रमुख्य	1) Day (1960	Pour Ester	gooth 3th		(1) Shell +Tobe
•	COMAIRCO		FLEX	N/A	DOUE.	N/A	75%	VES			and the content of		431	\$8	e e e e e e e e e e e e e e e e e e e		×	in the second se	YES	Suceric	DOTIMALA	Page .	75750	E Service Co	SKEU + TVRE
, .		Coupling Manufacturer	Type	Size	Lubrication	Slide Base	Coupling Guard, (yes/no)	Enclosed	Open	Mouning	Soleplate Compressor	Driver	Baseplate Compressor	Driver	Foundation Boits by	Manufacturer	Purchaser	Accessones	Air Intake Filter	Manufacturer	Model	Type	Maximum Cepacity (SCFM)	ii Cooler	Турс

Oil Cooler

Moisture Separators - After cooler

Tube Sheet

Shell

Manufacturer/Model

Pressure Drop (CW Side)

Materials:

CW Temp. (Outlet)

CW Temp. (Inlet)

CW Required (gpm)

Dimensions Weight

After cooler

Tube Sheet

Shell Tube

TECHNICAL BID EVALUATION ATTACHMENT 3 - TECHNICAL COMPARISON RFP No. 2661-5M-126 - AIR COMPRESSORS

COVANTA LEE CQUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

REHAZKS	(1) TOTAL FOR OIL COOLER & AFTER COOLER. (2) INLET TEMP. TO A. COOLER. (3) SEE NOTES (1) \$\frac{4}{2}\ightarrow \text{COOLER.} THEY TO OIL COOLER. (4) EXCEPTION TAKEN. SEE ATTACHHENT? FOR DETAILS. (5) PER COMMITCO E-MAIL OF SISIOS.		
SCALES	4) No (4) No (5) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	THE CH THE STATE OF THE STATE O	GITCH THENDY
COMAIRCO	100 100 (5) 35 H 88°C (5) 88° 95 (5) 100 (5) 200 (5)	25 10 CBP (5) 110 +00 (5) 110	Ā
		The second secon	va aga ulus guyumi vala gama agu

Pressure Drop (CW Side)

Materials:

CW Temp. (Outlet)

CW Temp. (inlet)

CW Required (gpm)

ASME Code Reg'd

Dimensions

Weight

<u></u>	ATTACHMENT 3 - TECHNICAL COMPARISON	RFP No. 2661-SM-126 - AIR COMPRESSORS
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REHARKS		(2) EXCEPTION TAKEN. SEE ATTACHMENT 2 FOR DETAILS.																					5474/9
SCALES	1100 chm	Yes - Wagher Averin	47000			×	Ĭ	9	8	1400	22.6	T	6.51	Y		Nove	163	Capacity - SCFM	492 5650	(5) 402	484	Ochens or Denace	462 04
COMAIRCO	4ES 1000 SCLM(I)	1455	750 sqm (1)	· · · · · · · · · · · · · · · · · · ·	165		36"	9(6.11	400501	7251	225	1.8.0	120	= -		N/A	lve, drain Yes (1)	Capacity - SCFM	920	350	300	28	200
	Included with Cooler Maximum Cepacity	Automatic Cond. TrapMAfr.	Cepacity (Ibs/hr)	Air Receiver	Vertical	Horizontal	Diameter	Length	Volume (et. ft.)	Max. Working Pressure (psig)	Hydrostatic Test Pressure (psig)	Relief Valve Size	Set Pressure (psig)	Drain Size	Material:	Corrosion Allowance	Accessories to include 4½" pressure gage relief valve, drain valve, service valve and inspection openings. (yesho)	Conditions @:	1st Stage Outlet	A/C Discharge	Sep. Discharge	Rec. Discharge	Dryet Discharge

TECHNICAL BID EVALUATION ATTACHMENT 3-TECHNICAL COMPARISON REP No. 2661-SM-126 - AIR COMPRESSORS

COVANTA LEE COUNTY LEE COUNTY RESOURCE RECOVERY FACILITY WASTE TO ENERGY EXPANSION PROJECT

	REMARKS	PER COHAIRCO E-MAIL OF SISTOS.									,							•		•			·		17V
		(1) PER COMMIRCO)																						
1	SCALES	Temperature - F	138.0	110	911	Lower - Depends or Ambreal	1256	Pressure - psia	140	a++	0+1	139	129		0 2	3	Ves- Auto Denaus		Compression Ples	67		0 2	97		465
	COMAIRCO	Temperature - °F	185	110 95 w/800 (1)	(10 BONGO (1)	45 80	45 80 C	Pressure - prin Psie	725	125	52	521	127		VES	<u> </u>	J.	vonce de min	YES	A year man, sure m	e Maria programa	And the region	Same and the same	and dissilventure	765
		Conditions @	1st Stage Outlet	A/C Discharge	Sep. Discharge	Rec. Discharge	Dryer Discharge	Conditions @:	1st Stage Outlet	A/C Discharge	Sep. Discharge	Rec. Discharge	Dryer Discharge	Capacity Control	Start Stop	Continuous Speed	Dual Control	Piloted by	Receiver Pressure	Purchased Inst.	Suction Valve Unloading	Manual	Automatic	Accessones to Include:	Interstage Piping

Acoustic Enclosure, (yes/no)

Manufacturer NEMA Size

Outdoors Indoors

Motor Starters

Maintenance Weight, Ibs

Installation

Erection Weight, Ibs

Accessories, lbs

Driver, lbs

Height, inches

COVANTA LEE COUNTY
LEE COUNTY RESOURCE RECOVERY FACILITY
WASTE TO ENERGY EXPANSION PROJECT

Moisture Separator w/traps

Cooling Water Piping Sight Flow Indicators

After cooler

JECHNICAL BID EVALUATION	TACHMENT 3 - TECHNICAL COMPARISON	No. 2661-SM-126 - AIR COMPRESSORS
비	TACH	FP No.

APARISON RESSORS	SCALES	(6)	07	2 2 2	2000 2000	1 50	*	SIEHELD
ATTACHMENT 3 - TECHNICAL COMPARISON RFP No. 2661-SM-126 - AIR COMPRESSORS	COMAIRCO	75.5			4500	458		C-H IN CONTROL

Compressor and Base, lbs.

Length, inches

Width, inches

Solenoid Operated Water Vaive to Control Cocing

Water to comp, A/C

Air Intake Filter

Dimensions, Weights

TECHNICAL BID EVALUATION COVANTA LEE COUNTY LEE COUNTY RESOURCE RECOVERY FACILITY WASTE TO ENERGY EXPANSION PROJECT

ATTACHMENT 3 - TECHNICAL COMPARISON RFP.No. 2661-SM-126 - AIR COMPRESSORS

FROM DEYER HFR'S DATA FOR HODEZ TWPIDDO. EKCEPTION TAKEN OK PUBGE AIR ROTE. SEE ATTACHHENT Z FOR DETAILS. EXCEPTION TAKEN ON CAPACITY. SEE ATTACHMENT 2 FOR DETAILS. PER COMMINECO FINALL OF 5/11/05. PER COMMINGO E-MAIL OF 5/9/05. SENA BIKS (3) \bigcirc 4 Depends on Demand FATGRUPE HEATO 900 cfm(4 4 BUR Cycle Haskisos SCALES 07 549 34 47 (b) (3) \odot \bigcirc HEATED DESIGNAT Aucrek 1000 TWP COORES SMC 25min 78hr 3.511r COMAIRCO 155 FT/MW 7.4 45 AVE. 4 47 400% Furnish as packaged; compressor(s), after cooler(s), moisture separator(s), driver(s), receiver(s) and dryer(s) including piping interconnecting wiring and controls. (yes/no) Maximum Capacity @ given inlet conditions, SCFM Temperature required for Reactivation, FF INSTRUMENT AIR DRYER Power Required for Reactivation, kW Pounds of Water removed per cycle Purge Air or Gas Flow Rate, SCFM Linear Velocity thru bed, fi/min Absorption Cycle (Time), hrs Time Required for Reactivation Cooling Water Flow Rate; gpm Floor Space, ft Weight, lbs Flow Circuit of Dryer Atmospheric Split Stream Heating, hrs Cooling, hrs Package Unit: Model Manufacturer Type Size

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ATTACHMENT 3 - TECHNICAL COMPARISON RFP No. 2661-SM:126 - AIR COMPRESSORS TECHNICAL BID EVALUATION

AcTUBRIED ALDMISA See Dwg 24co # S ACTUBRED COMAIRCO 55 PS: 2552 150 Pressure drop through dryer @maximum flow, psi Type and Quantity of Desiceant in each tower, Headroom required to remove heater, inches Cross section area of desiccant bed, ft2 Weight (of complete unit), lbs Overall Dimensions/Weight of Unit Connection Size/Rating Design Pressure, psig Height, inches Length, inches Width, inches Sas

ζ() L

15.78 to 1 microns (4) HAN 16.200 26 3/8 <u>4</u> 2 150 HHB

SUCCEMENT HANKISON (2) 500 PASCACO MAS 17.75×43

Dimension (O.D. \times L), inches

MIST ELIMINATORS

Manufachuer Model No.

Relief Valve Setting, pwg

Remarks:

Cooling Water

Clean Pressure Drop, psi

Capacity, SCFM

Removal Efficiency

DP gage, (yes/no)

TIMER

Type of Time Cycle Drain

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7 6 7

REHARKS

SCALES

PER COMAIRCO E-MAIL OF 5/9/05.

PER SCALES FAX OF 5/5/05. \bigcirc

PACKAGE WITH HOUNTED FILTERS, TOWER INSULATION, FAZ OPTION, DEW POINT MONITOR , T VALVE BY PASS.

FROM HFR'S DATA.

D. AIR DRYER FILTERS

Coalescing Prefilter

Manufacturer

Model No.

TECHNICAL BID EVALUATION	RFP No. 2661-SM-126 - AIR COMPRESS
--------------------------	------------------------------------

SCALES	Hawkison	1 0 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FLEETOIC	50017(0-87)	HTG 1200 1200 450°F	99.9% to 1 microns
COMAIRCO	Alichek 1841 ST0600 -C	1,00 2 9.9% to 0.01 microns	WES TIMET	Acos	3704007 450	90.9% to 1 microns

Type of Time Cycle Drain

Removal Efficiency DP gage, (yes/no)

Clean Pressure Drop, psi Temperanue Rating, * F

Capacity, SCFM

Manufacturer

Afterfilter

Model No.

Removal Efficiency

DP gage, (yes/ no)

Clean Pressure Drop, psi

Capacity, SCFM

LEE COUNTY RESOURCE RECOVERY FACILITY WASTE TO ENERGY EXPANSION PROJECT COVANTA LEE COUNTY

By: J.Ferrero My Date: May 18, 2005

RFP No. 2661-SM-126 - AIR COMPRESSORS ATTACHMENT 4 - PRICING SUMMARY TECHNICAL BID EVALUATION

	COMAIRCO	SCALES	ATLAS (Revised Bid)
Base Price	\$103,866.00 (1)	\$106,236.00 (1)	\$137,990.00 (2)
Price Adjustments:			
Required Quoted Options: Temperature gauge on dryer skid Larger compressor size to meet capacity	(Incl. in Base Price) (Not required)	\$400.00 \$17,100.00 \$1,700.00	(Incl. in Base Price) (Not quoted) (3)
Combination motor starter between Larger dryer size to meet capacity Motor Mfr. as per Spec.	\$6,541.00 \$6,541.00 (Incl. in Base Price)	\$7,800.00 (5) \$13,000.00	
SUBTOTAL (Required Options)	\$9,006.00	\$40,000.00	\$0.00
Recommended Options: Third Air Receiver	\$1,925.00	\$2,290.00	\$3,675.00
TOTAL ADJUSTED EQUIPMENT COST (with required and recommended options)	\$114,797.00	\$148,526.00	\$141,665.00 (2)
Evaluated Costs: Power Consumption (4)	\$10,198.00	\$0.00	
TOTAL EQUIPMENT EVALUATED COST (with required and recommended options)	\$124,995.00	\$148,526.00	
Other Offered Options: ASME Code coolers	\$11,549.00	(Not offered)	

NOTES: (1) Includes transportation cost, FOB delivered jobsite.

(2) Price shall be considered approximate since a full evaluation was not performed on this bidder;

other costs may be applicable.

(3) The compressor offered in the revised Bid was undersized. The compressor offered with the original Bid was oversized and the total cost was approximately \$160,000.00.

(4) The evaluated cost for power has been assesed at \$3,642.00 per KW.

Lindsey Sampson - Air Compressor/Bid Evaluation - Selection & Recommendation SM-126

From:

To:

<SAMPSOLJ@leegov.com>, "D'Amico,Don" <ddamico@roe.com>

Date:

6/3/2005 12:06 PM

Subject: Air Compressor/Bid Evaluation - Selection & Recommendation SM-126

CC:

"Stuhrke, Steve" < sstuhrke@roe.com>, "Dennis Iavarone" < diavarone@roe.com>,

"Anacker, Dennis" < danacker@CovantaEnergy.com>, "Howard.Jody"

<Jody Howard@CovantaEnergy.com>

Gentlemen.

Based on B&R's Air Compressor Bid Evaluation, dated May 20, 2005, received by Covanta on May 23, 2005, Covanta concurs with B&R's selection and recommendation to purchase the subject package from Comairco. The following comments are for your consideration and guidance:

- 1. Commercial Terms & Conditions Vendor has accepted the RFP Services/Goods Purchase Conditions, therefore requiring no further negotiations by the County.
- 2. Price: Covanta concurs with B&R's recommended options/adjustments and Recommended Award Price of \$114,797.
- 3. Bond: Vendor quoted a bond for County's consideration. This is an equipment delivery only order, therefore County does not require a bond and is not included in the recommended award.
- 4. Payment Terms: 25% for drawings; 25% upon release to manufacturer (Feb. 2006); and 50% upon delivery to site.
- 5. Schedule: Delivery Date of May 15, 2006 is two weeks later than that required by Project's Master Project Schedule. Don D'Amico is requested to have Vendor confirm a delivery date of May 1, 2006.

B&R should proceed immediately in completing and submitting 1) a purchase order term sheet that reflects the final agreements and understandings to be incorporated into the purchase order, and 2) a conformed specification, with all data sheet data filled-in, for inclusion in the purchase order.

B&R's original and current schedule for issuing this PO is May 31, 2005 and June 28, 2005, respectively. Covanta recommends that the County have this award approved by the BOCC no later than the June 28, 2005 BOCC Meeting to avoid the July BOCC recess.

Peter

Lee County Resource Recovery Facility Expansion Project ATTACHMENT A (to equipment purchase orders)

TECHNICAL DOCUMENT REQUIREMENTS

<u>Document</u>	Electronic	<u>Hard</u>	<u>Recipient</u>
	File in pdf	copies	
	<u>form</u>		
	1		B&R
Review Dwgs	***		Covanta DC***
	0		Covanta FM
	0		County/Purchaser
Final Record Dwgs (Certified)	1		B&R
	1		Covanta DC
Additionally, Seller shall provide one (1) CD	1	1	Covanta CM
containing all Certified Drawings to Covanta's Facility	1	1	Covanta FM
Manager with a copy of the Transmittal to Covanta's	1	1	GC
Document Control Department. Such CD files shall	0	0	County/Purchaser
allow a complete drawing to be printed without			
assembling layers.			
Draft Installation, Erection, O&M Manual for Review		1	B&R
Final Installation, Erection, O&M Manuals *		7	B&R
(required 4 weeks prior to shipment)		1	Covanta DC
Additionally, Seller shall provide one (1) CD containing the		2	Covanta CM
O&M Manual (electronic file) to Covanta's Facility Manager		1	Covanta FM
with a copy of the Transmittal to Covanta's Document Control		1	GC
Department.		0	County/Purchaser
	1		B&R
	0		Covanta DC
Packing List – 4 weeks prior to shipment	1		Covanta CM
	0		Covanta FM
	1		GC
	1		County/Purchaser
Spare Parts List submitted at the same time as Certified	1		B&R
Drawings are submitted, complete with prices **	1		Covanta DC
(in addition to those to be supplied w/ O&M Manuals)	1		Covanta CM
	3		Covanta FM
	0		GC
	0		County/Purchaser

^{*} One print of each certified drawing and a priced spare parts list shall be included in the Operation & Maintenance Manual

DC = Document Control

CM= Covanta's Construction Manager located at the jobsite (Facility site)

FM= Covanta's Facility Manager located at the Facility site

^{**} Complete priced spare parts list is to be submitted for one (1) year of operation; prices firm for one (1) year.

^{***}A copy of Seller's/supplier's transmittal document only must be sent to Covanta's Document Control Department simultaneously with all technical documents submitted to others.

Lee County Resource Recovery Facility Expansion Project ATTACHMENT A (to equipment purchase orders)

TECHNICAL DOCUMENT REQUIREMENTS

GC=General Contractor located at the jobsite (Facility site)