



County of El Paso Purchasing Department
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ADDENDUM 5

To: All Interested Proposers

From: Lucy Balderama, Inventory Bid Technician

Date: March 23, 2009

Subject: RFP # 09-011, Renewable Energy Project for the County of El Paso

The Purchasing Department received questions relating to the above referenced proposal; the response to the following question:

Please provide the following information for the Expansion of the East Jail Annex

(Please provide vendors with address to location where project will take place.)

Jail Annex address- 12501 Montana, El Paso, TX 79938

1. Please provide the following information for this project:

- Available roof space in ft²- There are 3 units and one administration building at the Annex. Each unit is comprised of 4 pods arranged in an "X" pattern, with the center being the outdoor exercise area. Each pod has 14,330 S.F. available roof surface, with a total per unit of 57,332 S.F. There are 5 ea. Rooftop units, 6ea. Exhaust fans, 6 ea. supply fans and numerous exhaust fans on each of the pod roofs.
- Layout of the building including roof type (pitch, flat, concrete, tile etc.)- Roof structure is a flat roof, Class "A" built-up system, with steel joists and beams, and a 22ga. Roof deck, and a Hi-Tuff* roof membrane manufactured by JPS Elastomeric Corp.
- Load capacity per ft²- Joist dead load weight is rated at 25 PSF. (pg. S-1.3 on drawings)
- Distance to planned boiler room- Two pods are served by one water heater. The distance to the furthest point of these two pods is 320 Ft.

Piping can be run in a chase above the cell area all the way to the furthest point on either pod.

- Distance to planned nearest load center- Distance from the load center to the furthest point is 350 Ft. piping can also be run above the cell areas.
 - Offset in percentage of electricity (kWh) and gas (CCF) required to provide a accurate proposal incl. required amount of PV-Therm Modules- N/A
 - Current annual electricity usage: 5,964,277 kWh (100%) without Expansion N/A
 - Current annual electricity usage: 5,964,277 kWh (100%) without Current annual gas usage: 149689 CCF (100%) without Expansion - N/A
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2. The most recent solar hot water system status inspection. **There is not existing solar heating water system at the Jail Annex.**
3. The existing hot water storage capacity in gallons. **1500 gallons, 2 each**
4. The floor space available for the solar hot water storage tanks in sq-ft. **112 sq. feet**
5. The existing plumbing schedule for the solar hot water system. **N/A**
6. The plumbing schedule for the mechanical room. **Not necessary at this time.**
7. The condition of the old solar storage tanks. **N/A**
8. The most recent solar storage tanks inspection results. **N/ A**
9. The average amount of inmates per day. **1000 inmates**
10. The piping material for the supply and return lines. **Copper pipe**
11. The piping size. **3 “ copper**
12. The pipe/plumbing installation slope. **N/A**

13. The condition of the controllers.
 - a. Make of the controllers **N/A**
 - b. Model of the controllers **N/A**
14. The condition of the control wiring. **N/A**
15. The manufacturer of the solar circulation pumps. **N/A**
 - a. Quantity of pumps **N/A**
 - b. Location of pumps **N/A**
16. The model number of the pumps. **N/A**
17. The most recent system status inspection for the pumps. **N/ A**
18. The most recent system status inspection for the solar system valves. **N/A**
19. The solar collector manufacturer. **N/A**
20. The solar collector model numbers. **N/A**
21. The most recent solar system status inspection for the solar collectors. **N/A**
22. Should a bid bond be submitted per proposal or for the total of all of the proposals submitted?

Bid Bond was addressed on Addendum 1.

 - **Bid bonds will be required for all submittals priced over \$100,000.00. Bid bonds should be submitted after submittals have been evaluated, ranked and interviewed (if required,) and the request for final pricing is submitted. Any vendors forming joint ventures or partnerships must submit a bid bond for the entire total cost of the project.**
23. **Questions for the swimming pools “Solar Heating Projects”.**

(Please provide vendors with address to location where project will take place.)

On the County Facilities Utility Analysis FY 2007 sheet handed out at the Pre-Bid Conference you did not provide the information for the:

a. Ascarate Swimming Pool

Dimensions of the Ascarate swimming pool are 25 yards by 50 meters. The O'Donnell and Gallegos pools are L-shaped, measuring 25 yards by 45 feet with the deep end measuring 30 feet by 30 feet.

1. Ascarate Swimming Pool: 6900 Delta, El Paso, TX 79905
2. Canutillo Swimming Pool: 7361 Bosque, Canutillo, TX 79834
3. Fabens Swimming Pool: 518 G. Avenue, Fabens, TX 79836

b. Ascarate Golf Course

6900 Delta, El Paso, TX 79905

c. Ascarate Park

6900 Delta, El Paso, TX 79905

Please provide this requested utilities information in the format used for the other facilities.

24. To provide you with an accurate offer we need the following information for the chosen swimming pool:

- Size of pool (sq. ft and water capacity) [See 23a](#)
 - a. Ascarate Pool: 12187sq. feet; 700k gallon capacity
Baby Pool: 2025 sq. feet, 45k gallon capacity
 - b. Canutillo Pool: 4275 sq. feet, 160k gallon capacity
 - c. Fabens Pool: 4275 sq. feet, 160k gallon capacity
- Type of pool (inside/outside) All pools are outside pools.
- Structure of Building (roof type) Cart barn and maintenance shed are made of metal, including the roof. The park office has a tile roof and the clubhouse has a combination of tile and flat roof.
- Land area for project available The only currently unused land at Ascarate is the former Western Playland site.

Questions for Community Development for the Modular Subdivision

(Please provide vendors with address to location where project will take place.)

25. **Please provide the following information For the proposed 100 home “GREEN” Subdivision Housing Project.**

- Total available acreage and location of the subdivision including maps with required housing setup
Answer: Approximately 20 acres and the suggested areas are either on Kentwood and Ascencion or Eastlake and I-10 area.
- Building restriction of any kind (One Story, Two Story etc.)
Answer: No restrictions (County has no building codes)
- Sure system available (Yes – No)
Answer: No. This is a raw land no infrastructure of any kind
- City Water available (Yes – No)
Answer: No. This is a raw land no infrastructure of any kind
- EPE Net metering available (Yes – No)
I'm not sure what is EPE.
- Fencing needed
Answer: Up to the Vendor (could be optional), not sure.
- Paved Roads available (Yes – No)
Answer: No paved road but needs to be included in the proposal.

26. Could you please provide more specifics since it is hard to provide a quote to an unknown number of buildings with different ratings and features, as well as to assume for the cost to make implementations to provide them a higher efficient rating? If you could provide me more information of how the County would like to approach a weatherization project as well as LEED building certification project to guide us into the right direction for this RFP.
Answer: I'm not sure if I need to give such info but Joe, you can decide, here is what I can tell you: Average number of dwellings per acre is 4-5. Average size home between 1200-1400 sqft. Energy efficient component/renewable energy should be considered in the construction of the homes such as the weatherization and LEED certified project. The plumbing and heating and cooling/HVAC or even electrical need to be considered for being green. Streets lighting, water and wastewater distribution and collection systems need to be green.

27. There is an opportunity to implement several million dollars of infrastructure work for the County of El Paso but will not know the full extent of the opportunity until a

detailed audit of the facilities and non-facility work is done. The requirement of a bid bond for the purposes of proposing a scope of work is a problem since the full scope of work is unknown. Could a bond be submitted for construction once the scope of work is agreed to?

Bid Bond was addressed on Addendum 1. and answered again on question 21.

28. Are you encouraging turnkey contractors (performance contractors) to bid on this project? We provide a turnkey solution that includes design, construction, financing, O & M, guaranteed energy and water savings. Most of the pre-bid attendees were local vendors, suppliers, engineering firms and utility personnel.

We encourage all vendors wishing to participate in these initiatives to bid.

29. Please provide the total available Load Centers per chosen Building with details in size and capacity.

El Paso County Courthouse

**Lighting Load Panels 7 each –277/480V, 3 Phase, 225A, 42 Pole, 14K AIC
18 each –277/480V, 3 Phase, 100A, 42 Pole, 14K AIC
Power Load Panels 10 each—120/208V, 3 Phase, 225A, 2 Section, 84 Pole, 10K AIC
4 each—120/208V, 3 Phase, 225A, 42 Pole, 10K AIC
6 each—120/208V, 3 Phase, 400A, 42 Pole, 10K AIC
2 each—120/208V, 3 Phase, 300A, 42 Pole, 10KAIC
1 each-- 120/208V, 3 Phase, 150A , 42 Pole, 10K AIC
2 each—120/208V, 3 Phase, 100A, 42 Pole, 10K AIC
1 each—120/208V, 3 Phase, 90A, 42 Pole, 10K AIC**

Tax Office

**Lighting Load Panels 1 each—277/480V, 3 Phase, 400A, 30 Pole, 14K AIC
1 each—277/480V, 3 phase, 277A, 24 Pole, 14K AIC
Power Load Panels 1 each—120/208V, 3 Phase, 100A, 24 Pole, 10K AIC
1 each – 120/208V, 3phase, 100A, 12 Poles, 10K AIC**

Archives/MDR

**Lighting Load Panels 3 each—277/480V, 3 Phase, 400A, 42 Pole, 14K AIC
2 each- - 277/480V, 3 Phase, 225A, 42 Pole, 14K AIC
Power Load Panels 4 each—120/208V, 3 Phase, 225A, 2 Section, 84 Pole 10K AIC
2 each –120.208V, 3 Phase, 225A, 42 Pole, 10K AIC
6 each—120/208V, 3 Phase, 150A, 42 Pole, 10K AIC
3 each –120/208V, 3 Phase, 125A, 30 Pole, 10K AIC
2 each –120/208V, 3 Phase, 100A, 30 Pole, 10K AIC**

30. Does the County have an interest in the local landfill site? A renewable energy project could be developed at this site that would provide tremendous opportunities for power generation.

The County's only facility is Fabens Transfer Station.

31. Has the County been working with any firm that has provided energy/water audit services on County buildings or facilities.....if so who are the firms? Is the audit information available for review?

EI Paso Electric SCORE Program, yes.

Questions for the Rejuvenation of Solar Thermal System on Downtown Jail

32. Please provide the following information:

NA

- Data of available Therm Modules (Manufacturer, Module Series
- Specification, Thermal performance Rating and Engineering Specs)
- Type of Layout of the Collector Array (e.g Open Loop Array, Closed-Loop Glycol Array, Drainback Array etc.)
- Heat Exchangers used
(Yes) Manufacturer ACE BUEHLER INC. Model No. ECWU21066S549C, Serial No.59327
- Size of Pumps & Layout of Piping Network
3" Pipe, Weinman –Model No. 7007 (casting), Serial No. 736023-1, GPM 175, rpm 1750, MAX PSI175, SPEC #2.5G-3011GK – 4B8BA-67 (at this time there are not pumps, they have been removed)
- Size of Solar Storage Tanks if available
Size of Drainback or Expansion Tank if available
Expansion Tank MANUFACTURER AMTROL, NATIONAL BUILDING SERIAL NO.16534, SIZE AX-80V

Amount of available Modules (needed for price proposal)

Propose system with rough budget.

33. If the installed Therm Modules are unusable and a new updated system is necessary, then we need the following information for the marked items:

- Roof space available in ft²
36' X 193' = 6948 SQ. FT.

Layout/picture of the roof and roof type (pitch, flat, concrete, tile etc.)

FLAT

- Load capacity
Existing weight of collector panels 16,095 lbs. Total net collector area is 3,097 sq ft. Approx. wt if (177) 3' x 8' panels are used, panels 25,665lbs., Iron 10,200 lbs., pipe 4,300 lbs.
- Distance to boiler room
180 FT.
- Distance to nearest load center
150 FT.

The following is unavailable.

- Offset in percentage of electricity (kWh) and gas (CCF) required to calculate the required amount of PV-Therm Modules
- Current annual electricity usage: 78,433 kWh (100%)
- Current annual gas usage: 40,484 CCF (100%)