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September 28, 2020

**ADDENDUM #1** to the University of Florida ITN21KO-113, Combustion Turbine Generator for Central Energy Plant, scheduled to be opened on **October 16, 2020 at 3:00 PM** at the University of Florida, Elmore Hall Conference Room, 971 Elmore Drive, Gainesville, Florida.

This addendum shall be considered part of the Contract Documents for the above mentioned **ITN21KO-113** as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original document, this addendum shall govern and take precedence. All other terms, conditions, and regulations will apply.

**This addendum consists of:**

- Revised Section 3.0 Schedule of Events:
  - 9/9/2020 Issuance of ITN
  - 9/21/2020 – 5:00 PM ET Technical Questions/Inquiries Due
  - **10/16/2020 – 3:00 PM ET ITN Closes/Opening of Proposals**
- Responses to questions and requests for clarifications. Please Note: Responses to questions and requests for clarifications that were received by the deadline but are not answered in this Addendum 1 will be answered in Addendum 2 which is forthcoming.
- Correction to email address listed in Section 4.2.5. Email should read [kolitsk@ufl.edu](mailto:kolitsk@ufl.edu).

Sincerely,

Karen Olitsky, Procurement Agent III  
Procurement Services

**Please acknowledge receipt of Addendum #1 by signing below and returning this addendum with your proposal. Failure to include addendum with your proposal may result in rejection.**

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Company Address

\_\_\_\_\_  
City/State/Zip

## Questions and Responses

- Q1. After reading through both documents that have been posted to the Procurement Services Website, we would like to respectfully request a response extension. Given the proposed timing for receiving answers to technical clarifications, the requirement for hard copy submissions, the elements of the project that require engineering and ongoing inefficiencies due to COVID precautions, additional time will be required to prepare a proposal up to Siemens high standards. Therefore, we request that the proposal due date be extended to October 30, 2020 at 3:00 PM.
- A1. We can accommodate a 1-week extension which would put the proposal due date on October 16<sup>th</sup> at 3:00PM.
- Q2. For the convenience of all involved, Siemens would like to suggest that the proposal be submitted in electronic format only due to the large (in excess of 1,500 pages) anticipated size of the document. If this is unacceptable, we would suggest submitting at least Tab 7 in electronic only format since the technical information contained in this section will take up the most pages.
- A2. A hard copy, containing original signature, of ITN Section 7.1 Certification of Proposal is required. An electronic, searchable pdf is acceptable for the rest of the proposal. The electronic copy must be provided on flash drive or CD/DVD as stated in the ITN document. Hard copy of Certification of Proposal and electronic copy should be submitted according to the instructions in ITN Section 4.0. Emailed proposal will not be accepted.
- Q3. Your email below instructs all inquiries be directed to you via email, but Per Section 4.2.5 all inquiries are to be directed to you in writing and your physical address is provided. Will email be used as the primary means of communication? Or does a physical letter need to be sent to you?
- A3. Email for inquiries is sufficient.
- Q4. Regarding the ITN, are comments and exceptions permitted in the proposal phase?
- A4. Comments and exceptions regarding the ITN maybe included in the vendors proposal. The University may request additional information or clarification on any matter regarding any vendor's proposal. The University also reserves the right to select the most responsive vendor, after review of initial proposal, without further discussion, negotiation or prior notice.
- Q5. Regarding the ITN, will there be a separate contract document that includes additional topics that will require negotiation (Liquidated damages, warranty details, Payment & Termination schedules, Deliverable schedules, among others?)
- A5. The Successful Vendor will be expected to execute an agreement containing the provisions contained in the ITN Document, or substantially similar provisions, as the University deems necessary. Any exceptions to the terms and conditions included in the ITN Document should be included in Tab 9. Additional terms and conditions, not included in the ITN Document will be detailed and negotiated after selection.
- Q6. Regarding the ITN, can you please advise how "Best and Final" offers work? Is the initial proposal meant to include a B&F offer price? B&F commercial positions?
- A6. The University may presume that any proposal is a best and final offer. However, the University reserves the right to negotiate with any or all vendors to arrive at its final decision.

Q7. Per the Technical Specifications Part 2 Approved Manufacturers for Combustion Turbine our competitors are clearly mentioned in the bid while Solar is not and would enter into the "Engineer Approved Equal". Could you please confirm as soon as possible that we are an engineer approved manufacturer or what the procedure to do so would be? We can provide further qualifications for Jacobs to approve.

A7. Solar Turbines is an acceptable supplier of combustion turbines. Meeting the intent of the ITN requires the bidder to submit a proposed equipment configuration that meets the performance requirements outlined in the spec. Any exceptions or deficiencies in meeting spec requirements must be clearly stated.

Q8. We would like to request copies of Attachments 2, 3 and 9 from file "ITN21KO-113\_Exhibit\_A\_Technical\_Specifications\_8.25.2020.pdf" in native unlocked format so that the tables and blanks can be filled in cleanly and efficiently.

A8. Native files for Attachment 2, 3 and 9 can be downloaded from the [Procurement Services Schedule of Bids](#) webpage.

Q9. We respectfully request that responses to this initial group of technical clarifications (below) be provided as an addendum no later than September 21, 2020 and a second addendum be issued as currently planned on September 28, 2020 for all remaining technical clarifications submitted.

A9. Request noted.

Q10. As an alternative to speed the response to technical clarifications, perhaps a web meeting could be arranged this week with both companies submitting proposals, Jacobs Engineering and the University of Florida. The minutes of this meeting could then be issued as an addendum.

A10. Technical clarifications provided herein will serve as the formal response. A virtual meeting will not be scheduled.

Q11. Page 10 / Section 1.4.C.4 & 81 / Attachment 9. Section 1.4.C.4 states "Service agreement term to be no less than 5 years." however Attachment 9 indicates "5-year term required". Since the Life Cycle Cost Analysis will be conducted over 30 years, a longer service agreement term will provide more representative costs. Are Service Agreement terms longer than 5 years acceptable?

A11. The intent is for the LTSA is to provide the costs to get through the first major overhaul. Longer term LTSAs to meet this can be supplied. This data will be used in the evaluation of the total life cycle cost of the solution proposed. The costs will be applied over the entire life cycle cyclically over the duration quoted.

Q12. Page 12 / Section 1.6.A. Target operational date for CHP service is expected no later than 2025. When is first operation of the CTG expected?

A12. Commissioning is expected to start the first quarter of 2025.

Q13. Page 12 / Section 1.6.E. Site conditions of 70 deg. F, 45% relative humidity, and 14.63 psia barometric pressure. We would expect the average yearly RH in Gainesville to be over 70%. Is 45% RH correct?

A13. Concur. Average RH is approximately 80%. Refer to Attachment 2 Revised 9/25/2020 for conditions to be used for performance guarantee.

Q14. Page 12 / Section 1.6.G. Vendor shall specify required utility pipeline natural gas pressure to the CTG package. What is the expected pipeline pressure range? Will an on site gas compressor or a pressure let down station be required?

A14. Pipeline pressure to the site will be 700-830psig. Pressure regulation will be provided by others, based on the gas turbine and conditioning equipment requirements.

Q15. Page 12 / Section 1.6.G. Vendor shall specify required utility pipeline natural gas pressure to the CTG package. What is the expected pipeline gas temperature range?

A15. 64-86°F

Q16. Page 21 / Section 2.4.B.3. What maximum and minimum design pressures and temperatures (pipeline side) shall be used for the fuel gas conditioning package?

A16. Gas conditioning equipment should be provided with ANSI Class 600 flanges/valves/fittings. Safety relief, if required, will be provided upstream of the conditioning equipment. Supply of relief valves is by others.

Q17. Page 17 / Section 2.3.A & 59 / Attachment 7. Performance Guarantees. To facilitate an apples to apples comparison of gas turbine performance, please designate a fuel gas composition both Providers shall use for the performance calculations and guarantees. The average composition provided in Attachment 7 from June 2020 is suggested.

A17. Average value from June 2020 should be used.

Q18. Page 17 / Section 2.3.B.1 & 37 / Attachment 2. In section 2.3.B.1 the request is for NOx and CO not to exceed 25ppmvd @ 15% O2 from 75% to 100% load. In Attachment 2 the request is for NOx at 15ppmvd and CO at 25ppmvd @ 15% O2 from 50% to 100% load. Please clarify the emissions guarantee requirement.

A18. 25ppmvd NOx and CO at 15% O2, from 50%-100% load should be used for guarantee.

Q19. Page 46 / Attachment 4. From the provided GA, it looks like the CTG will be on the 2nd Floor (i.e. above grade). If this is correct, does this mean the foundations under the CTG will not be in direct contact with earth?

A19. Correct. The gas turbine will be on an elevated foundation designed by Jacobs, in compliance with the manufacturer's static and dynamic foundation load requirements.

Q20. Page 46 / Attachment 4. Plant GA. Please provide a GA showing the dimensions of the turbine hall, equipment areas and side elevation view.

A20. Additional drawings to be provided with Addendum 2 which is forthcoming.

Q21. Page 59 / Attachment 7. We assume the following with regard to fuel composition, please confirm or correct;  
Relative Density to standard air  
Heating Value Wet/Dry is in BTU/nft3  
Fuel composition is given as %-volume  
Wobbe is in BTU/ft3  
Please provide reference temperatures for Heating Value and Wobbe index.

A21. Response from FGT:

- *Relative Density to standard air - based on the density of gas to density of air.*
- *Heating Value Wet/Dry is in BTU/nft3 - measured Btu/scf dry*
- *Fuel composition is given as %-volume - % by volume*
- *Wobbe is in BTU/ft3 – Btu/scf*
- *Standard reference temperature per FGT's Tariff is 60°F*

Q22. Page 59 / Attachment 7. We understand the following with regard to fuel composition, please confirm or correct;

C1 = Methane, CH<sub>4</sub>

C2 = Ethane, C<sub>2</sub>H<sub>6</sub>

C3 = Propane, C<sub>3</sub>H<sub>8</sub>

IC4 = Iso Butane, IC<sub>4</sub>H<sub>10</sub>

NC4 = n-Butane, NC<sub>4</sub>H<sub>10</sub>

IC5 = Iso Pentane, IC<sub>5</sub>H<sub>12</sub>

NC5 = n-Pentane, NC<sub>5</sub>H<sub>12</sub>

C6 = n-Hexane, C<sub>6</sub>H<sub>14</sub>

A22. Response from FGT:

*FGT has confirmed that the gas components referenced below are correct with the exception of C6. This is actually C6+ and encompasses all additional components equal to or greater than C6. This is generally a very small %.*

Q23. Does the LTSA proposal need to be a firm offer?

A23. Yes. The University reserves the right to execute the offer or not exercise the offer and procure a LTSA at a later date.

Q24. Page 12 / Section 2.4.C.2. Bidder's standard generator voltage rating for similar applications in the U.S. is 13.8 kV. The ITN specifies a 12.47 kV generator rating ... please advise if 13.8 kV is acceptable OR if 12.47 kV must be used.

A24. 12.47kV is the preferred rating. A voltage rating of 13.8 kV may be proposed, along with identification of schedule impacts and associated cost savings compared to the specified 12.27 rating.

Q25. Page 12 / Section 2.4.C.2. Please advise the cooling water supply temperature that will be provided (by Owner) to the vendor-supplied TEWAC generator.

A25. 90°F, see section 1.6.F.

Q26. Page 17; 32 / Section 2.2.B.12; 3.5.A. Per the ITN, site performance testing will be conducted by Others. Bidder understands that the intent of "Vendor assistance" during the testing is limited to providing recommended test procedures (or reference to EPA test methods for emissions testing) as well as guidance with respect to performance testing of the Vendor-supplied equipment. Please advise.

A26. Vendor representatives are expected to be present for verification of tests which are used to validate guaranteed performance.

Q27. Page 36 / Attachment 1. The ITN specifies a performance guarantee point at 70 deg F / 45% RH. For bid purposes, should the guarantee be based on "chilling on" or "chilling off"? I.E., should the guarantee reflect performance at 70F or at 70F, chilled down to 50F?

A27. Performance guarantees should not include the effects of inlet chilling. See additional RFI responses herein for the correct relative humidity.

Q28. Page 17; 37 / Section 2.3.B; Attachment 2. ITN Tech Spec section 2.3.B shows NOx emissions level to be no more than 25ppmv @15%O2. ITN Tech Spec Att 2 performance tables show NOx level at 15 ppmv ... Bidder assumes this is an error in the tables and the NOx limit should be 25 ppmv. Please confirm.

A28. Confirmed. 25ppmv NOx is correct.

Q29. Page 59 / Attachment 7. The ITN contains monthly average gas fuel compositions spanning June 2019 to July 2020. Please advise what gas fuel composition and fuel temperature should be assumed for the bid performance data.

A29. June 2020 average values should be used.

Q30. Section 1.4.C.4, Attachment 9, Base Bid, Second Item. Per the ITN, an LTSA is to be provided as part of the offer submittal. Please advise regarding the following questions: 1) The ITN calls for the LTSA to be based on a 5 year term. In this scenario it is possible that only a Hot Section maintenance interval would be performed as the amount of time to reach a Major Inspection may not have been met. Please advise if bidder can base the LTSA offer on time to reach and execute the first Major Inspection? 2) Is the LTSA to be offered as a "firm" or "budgetary" commercial offer?

A30. Please see previous response to this question.