



May 20, 2021

JPS Request for Proposal # 882446 – Frame 5 Unit Combustion Inspection Services on the Bogue Power Station

Dear Vendors

Only Electronic submissions will be accepted, using ShareFile by Citrix. All uploads will be confidential. Additional information on this software can be accessed by clicking the links below:

- Basic Client Guide <https://citrix.sharefile.com/share/view/s1bff52f8d434781a>
- Training (video) <https://www.sharefile.com/support/training>

DIRECTORS:

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SHOGO OTANI
HON. DANVILLE WALKER, O.J., J.P.

RFP 882446 Activities are guided by the dates stated in the Calendar detailed in Section 4 of this RFP. Observing these dates,

- 1) Section 2 provides points of contact for the submission of questions via email only
- 2) A combined response to questions will be posted on the Internet only
- 3) Respondents must confirm their intention to bid in order to be setup in JPS ShareFile folder (via email only)
- 4) Access to individual vendor folders will be given at least 1 week before the bid closes to eliminate any issues for bid upload by RFP deadline.
- 5) Files must be accurately labelled/named. Commercial Information must be a separate file from your Technical Proposal.

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COMPANY LIMITED

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ShareFile Access will be removed when the bid closes.

Regards,

JPS Purchasing Department



Jamaica Public Service Company Limited

Request for Proposals

**FRAME 5 UNIT COMBUSTION INSPECTION
SERVICES
ON THE BOGUE POWER STATION**

RFP# 882446

1.1 INTRODUCTION

Jamaica Public Service Company Limited (JPS) invites suitably qualified service providers to execute Combustion Inspection on its John Brown Engineering Frame 5 Gas Turbine (GT3) unit located at Bogue Power Station.

The duration of this outage is projected to not exceed 10 days breaker to breaker starting September 13, 2021 (estimated).

Based on the dynamics of the operation of the JPS Generating fleet, bidders are expected to be flexible within your proposal for reasonable changes that may occur to the planned dates referred to above. Changes will be timely communicated with the successful bidder.

1.2 BACKGROUND

Jamaica Public Service Company Limited (JPS) is an integrated electric utility company engaged in the generation, transmission and distribution of electricity throughout the island of Jamaica. JPS owns and operates 28 generating units and also purchases power from seven independent power producers (IPP). JPS assets include conventional thermal plants (335 MW), hydro and wind (29.12 MW), 50 substations, approximately 1200 km of transmission lines and 20,534 km of distribution lines.

The common shares of JPS are held 40% by Marubeni Corporation through its subsidiary Marubeni Caribbean Power Holdings ("MCPH"); 40% by Korea East West Power Company ("KEWP"); 19.9% by the Government of Jamaica ("GOJ") and the remaining 0.1% by a group of minority shareholders.

The Office of Utilities Regulation ("OUR") is the independent regulatory agency with responsibility for regulating the electricity sector in Jamaica.

Along with the provision of electricity, the JPS is a key partner in national development. The Company has a vibrant corporate social responsibility portfolio and makes significant contributions in the areas of education, sports, and community development. The Company also has a strong environmental focus and carries out its operations in an environmentally friendly manner.

JPS has the following status with Jamaica Customs – **Authorized Economic Operator** (AEO). It is an internationally recognized quality mark which indicates that the JPS supply chain is secure, and that the JPS customs' procedures and policies are compliant. With this designation, JPS Warehouse and Procurement Teams are subject to audit and monitoring by Jamaica Customs.

Geography of Jamaica

Jamaica lies 145 kilometers south of Cuba and 160 kilometers west of Haiti. Its capital city, Kingston, is about 920 kilometers southeast of Miami. At its greatest extent, Jamaica is 235 kilometers long, and it varies between 35 and 82 kilometers wide, with an area of 10,911 square kilometers.

The highest area is that of the Blue Mountains. The crest of the ridge exceeds 1,800

meters. The highest point is Blue Mountain Peak at 2,256 meters. Two types of climate are found on Jamaica. An upland tropical climate prevails on the windward side of the mountains, whereas a semiarid climate predominates on the leeward side. Warm trade winds from the east and northeast bring rainfall throughout the year. The rainfall is heaviest from May to October, with peaks in those two months. The average rainfall is 196 centimeters per year.

Temperatures are fairly constant throughout the year, averaging 25 °C to 32 °C in the lowlands and 15 °C to 22 °C at higher elevations. Temperatures may dip to below 10 °C at the peaks of the Blue Mountains.

Jamaica lies at the edge of the hurricane track; as a result, the island usually experiences indirect storm damage. Hurricanes occasionally strike the island with full force, including winds speeds up to 240 km/hr.

1.3 PROJECT SCOPE / OBJECTIVES

This Service will be carried out as per JPS Scope outlined in Appendix III.

All parts will be provided by JPS. JPS requires that all spares removed from the unit be properly cleaned, the serial numbers should be recorded and the parts should be stored for reuse as directed by the JPS engineer.

As part of your responsibility, and at your own expense, bidder should obtain all the relevant OEM specifications, TIL updates relevant to the GT's or any other fleet of its kind currently in production, and all other information that may be necessary for making a quotation. JPS will not be responsible or pay any expense or loss, which may be incurred in the preparation of the quotation.

Terms of Agreement

Bidders are responsible for expenses related to Covid-19 Protocols (testing, quarantine and consumables). The Government of Jamaica and JPS Covid-19 protocols must be observed at all times during the contract.

All work carried out under this Contract shall be of the highest standard and carried out by competent and qualified Engineers. All materials and component parts supplied or used shall be new and shall conform to specifications of the highest quality and shall be obtained only from merchants or manufacturers of the highest repute; and further all work carried out and materials and component parts supplied or used shall be such as may be approved by JPS.

- Provide adequate after-sales support: readily accessible spare parts inventory, Competent personnel to provide technical and general assistance.
- Engineers and other support personnel must have their own Personal Protective Equipment (PPE)
- Comply with Jamaican Government and JPS Covid-19 protocols
- Have available inventory of special tools to complete jobs.
- Contractor shall ensure that all work complies with Jamaican Law related, but not limited, to:
 - i) All work safety related regulation
 - ii) All construction power and water related regulation
 - iii) All Covid-19 protocols

1.4 Definitions

"Bidder", "Bidder", "Vendor" or "Contractor" shall mean JPS' qualified service provider acting in the role of the prime contractor who responds to this RFP.

"Bid/ Proposal" shall mean the Bidder's formal written response indicating committed price.

All references to JPS or Company shall mean the Jamaica Public Service Company Limited.

"Services" means services ancillary to the research data gathering and submission

"Approved" means approved by the JPS or its delegated representatives.

"Delivery" means completion of the research findings and the requisite recommendations submitted

"Days" means calendar days according to the Gregorian calendar.

"The Contract" means the final agreement entered into between the JPS and the Contractor signed by the parties, including any attachments, addenda, and appendices thereto and all documents incorporated by reference therein.

"The Contract Price" means the price payable to the Bidder under the Contract for the full and proper performance of its contractual obligations.

2.0 GENERAL INSTRUCTIONS TO BIDDERS

The Bidder is expected to confirm intent to bid by date stated in Calendar (Section 4). Failure to comply will result in Bidder being unable to participate in bid. Bidder must examine all instructions, terms specifications in the Bidding Documents. Failure to furnish all information required, will be at the Bidder's risk and may result in the rejection of its bid.

2.1 Points of Contact

All communications and questions with JPS regarding this RFP must be directed to the following Points of Contact (POC) via email:

Name: Ann-Marie Woodham awooham@jpsco.com
Alexa Brown agbrown@jpsco.com

Email Subject: **JPS RFP # 882446 – GT3 Combustion Inspection**

2.2 Communication Regarding the RFP

Unauthorized communications concerning this RFP with other Company employees, executives or Contractors may result in immediate disqualification.

All communication and questions should be submitted in writing, electronically to the POC. In order to ensure consistency in the information provided to Bidders, responses to questions received will be communicated to all participants, without revealing the source of the inquiries.

Only written responses will be considered official and binding. JPS reserves the right, at its sole discretion, to determine appropriate and adequate responses to questions and requests for clarification.

A Bidder contact should be provided for all questions and clarifications arising from the Proposal Queries should include:

- a) Company's name, company address and phone number, contact person, email address, position.
- b) References to specific points within this RFP using the Section number as reference
- c) Clear and concise questions

2.3 Period of Validity of Bids

Bids shall remain valid for *ninety (90) days* after submission. A bid valid for a shorter period may be rejected by the Company as non-responsive. In exceptional circumstances, the Company may solicit the Bidder's consent to an extension of the period of validity. The request and responses thereto shall be made in writing.

2.4 RFP Amendment and Cancellation

At any time prior to the deadline for the submission of bids, the Company may for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding documents by amendment.

The amendment will be done in writing to all prospective Bidders who have received the Bidding Documents.

In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the Company may, at its discretion, extend the deadline for the submission of Bids.

JPS reserves the unilateral right to cancel or reissue the RFP at its sole discretion. Bidders will respond to the final written RFP and any exhibits, attachments and amendments.

2.5 Bid Withdrawal

A Bidder may withdraw a submitted bid at any time up to the deadline for submitting bids. To withdraw a bid, the Bidder must submit a written request electronically, or via fax, signed by an authorized representative, to JPS before the deadline for submitting bids. After withdrawing a previously submitted bid, the Bidder may submit another bid at any time up to the deadline for submitting bids.

2.6 Confidentiality of Data

The Bidder should recognize that JPS operates in a sensitive business environment and, for that reason the Bidder must treat the materials and data provided by JPS as confidential. The successful Bidder may be required to agree to and execute the Confidentiality agreement.

3.0 PREPARATION OF BIDS

The bid shall be prepared in two (2) parts, technical and financial. The technical part should not contain any pricing information. The financial proposal shall be separate and contain price information. The uploaded proposals must include below:

A. Technical Proposal

Reference is made to Appendix I – General Information:

- (a) Evidence of establishment, type of organization, size, and professional affiliate
- (b) Executive Summary indicating why your firm should be chosen
- (c) Qualification and experience of your staff that will provide the service
- (d) Provide the names and profiles of the top 3 executives
- (e) Audited Financial Statements for the last 2 years
- (f) Current/valid insurance document
- (g) References – provide 3 references that you have provided similar service in the past. Include contact person and phone number

B. Financial Proposal

- a) Proposal must be submitted with the completion of tables stated in Appendix II. Your detailed proposal should clearly show
 - i. Costs for labour/ service, airfare, transportation, tools and equipment, accommodation, per diem, consumables, incidentals etc.
 - ii. The duration and costs associated with the execution of JPS’s intended work scope for single and double shifts
- b) The financial proposal shall consist of cost estimates for above, along with payment terms.
- c) Draft Contract for this service

3.1 Bid Prices

Prices quoted by the Bidder and further negotiated and agreed between the bidder and JPS shall be fixed during the Bidder's performance of the Contract and not subject to variations on any account. Prices should be quoted in **United States Dollars**.

3.2 Proposal Withdrawal

The Bidder may modify or withdraw its proposal after the proposal’s submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of proposals. To withdraw a proposal, the Bidder must submit a written request electronically or signed document by an authorized representative to JPS before the deadline for submitting proposals. After withdrawing a previously submitted proposal, the Bidder may submit another proposal at any time up to the deadline for submitting proposals.

3.3 Cost of Proposal Preparation

The Bidder shall bear all costs associated with the preparation and submission of its bid, and the JPS will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

3.4 Bidder's Eligibility and Qualifications

(a) In the case of a Bidder offering to supply goods under the Contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' manufacturer or producer to supply the goods in the Purchaser's country.

(b) The Bidder is to confirm the financial, technical and production capability necessary to perform on the Contract.

3.5 Documents establishing Goods' Eligibility and Conformity to Bidding Documents

The Bidder shall furnish, as part of its bid, documents establishing conformity to the Bidding Document of all goods and services, which the Bidder proposes to supply under the Contract.

3.6 Period of Validity of Bids

Bids shall remain valid for ninety (90) days, after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non-responsive.

4.0 SUBMISSION OF BIDS AND SELECTION CRITERIA

4.1 Bid Response

All responses must be in English Language. Your bid response must be presented in two (2) separate packages, namely Financial/Costing and Technical Specifications. The deadline to upload bids is **11:59 p.m. on June 3, 2021**.

RFP CALENDAR		
ACTIVITY	DUE DATE	RESPONSIBILITY
RFP date	May 20, 2021	JPS
Bidder submits questions on RFP	May 25, 2021	Bidder
Bidder confirms intention to bid	May 26, 2021	Bidder
Final date to respond to all queries	May 28, 2021	JPS
Confirmed Bidder given Shared file access to upload bid	May 28, 2021	Bidder
Completion of RFP and deadline for submission of bids to JPS	11:59pm June 3, 2021	Bidder
Closed Bid Opening	June 4, 2021	JPS

The Company may, at its discretion, extend this deadline for the submission of bids, in which case all rights and obligations of the Company and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

Observing the deadline of the RFP, responses should be submitted electronically with appropriately file labels/names, and information required in Appendices I and II. Adobe Pdf and Power Point file formats are acceptable. Proposal must be signed by official authorized personnel who can bind the contractor to the provision of the RFP.

4.2 Late Bids

Any bid received by the Company after the deadline to upload bids, pursuant to **Section 4.1**, will be rejected.

4.3 Proposal Signing

All proposals must be signed by an official agent or representative of the company submitting the proposal.

4.4 Proposal Rejection

Bids received after the deadline for submission of bids will be rejected. Any bid received that does not meet the requirements of this RFP may be considered to be non-responsive, and the bid may be rejected. Bidders must comply with all of the terms of this RFP. JPS may reject any bid as being non-responsive that does not comply with the terms, conditions, and characteristics of this RFP or the key criteria for selection.

4.5 Right of Rejection

JPS reserves the right, at its sole discretion, to reject any and all bids or to cancel this RFP in its entirety.

JPS reserves the right to reject any and all proposal(s) at its sole and absolute discretion. Submission of a proposal constitutes acknowledgement that the Bidder has read and agrees to be bound by such terms and conditions as outlined in the Bid document.

JPS reserves the right to hold discussions/negotiations with OEM directly in arriving at final product specifications, warranty, pricing and delivery. This will not stop finalizing proposal directly with 3rd parties or OEM distributors.

5.0 SELECTION PROCESS AND EVALUATION CRITERIA

JPS will open bids privately. See calendar for date (Section 4). A selection committee consisting of JPS staff members will evaluate all responses. Based on the preliminary evaluation of the responses, we reserve the right to short list respondents.

Selection will be based on the contractor’s responsiveness to the RFP and total price quoted (including recurring costs).

5.1 Determination of Responsive Bids

The company will examine the bids to ensure conformance to all the instructions listed in the Instructions to Bidders.

Omission of any of the requisite documentation may result in the bid being declared non-responsive and therefore rejected.

JPS internal scoring method values the following proposal attributes (order of presentation here does not reflect priority)

TECHNICAL CRITERIA	Result
Technical Specification	Pass or Fail

COMMERCIAL EVALUATION CRITERIA	Score (%)
Price	90
Payment Terms	10
Total	100

5.2 JPS Bid Evaluation Discretion

JPS at its discretion may:

- Select a bid other than the lowest priced if JPS determines, at its sole and absolute discretion, that JPS’ interests will best be served by doing so;
- Withhold any information used in conducting the evaluation;

- Reject any or all bids and enter into negotiations with other third party non-bidders, or any Bidder or Bidders that JPS may choose;
- Seek clarification from any Bidder regarding bid information and may do so without notification to any other Bidder;
- Continue the review procedure until a Bidder is selected successfully or until JPS chooses to reject all bids;
- Accept any bid or alternate as submitted without negotiations;
- Require revisions to, corrections of, or other changes to any bid submitted as a condition to its being given any further consideration;
- Select for negotiations only the overall best bids or alternate submitted, as determined by JPS;
- Truncate negotiations with a Bidder if JPS determines that progress towards a contract is not proceeding in a reasonable manner or at a reasonable pace;
- Open negotiations with additional Bidders or non-bidders.

5.3 Bid Discrepancies

Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between words and figures, the amount in words shall prevail.

If the contractor does not accept the correction of errors, its bid shall be rejected.

The Company may waive any minor informality or non-conformity or irregularity in a Bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

5.4 Right to Negotiate

Upon evaluation of the submitted bids, JPS reserves the right to enter into negotiations with one or more Bidders (not necessarily the Bidder with the lowest deliverable price submission) that appear to have submitted a bid that meets the needs and requirements of JPS. Negotiations could include, but are not limited to, price and the terms and conditions of this RFP. However, issues may arise that JPS may not negotiate due to policies or strategies, and an impasse could arise. If, for any reason, a Bidder and JPS cannot arrive at a mutual agreement that would result in the issuance of a contract, JPS reserves the right to terminate negotiations, to reject the bid, and to continue negotiations with other responsive Bidders that may lead to the issuance and award of a contract.

5.5 Written Clarification

JPS reserves the right, at its sole discretion, to request clarifications of bids or to conduct discussions for the purpose of clarification with any or all Bidders. The purpose of any such discussions will be to ensure full understanding of the bid proposal. Discussions will be limited to specific sections of the bid identified by JPS and, if held, will be after initial evaluation of the bids. If clarifications are made as a result of such discussion, the Bidder will submit such clarifications electronically.

Refusal to respond to JPS' request for clarifications may be considered non-responsive and be used as grounds for rejection of the bid.

5.6 Contract Award

The award will be based on the proposal that is most responsive to the requirement of JPS and that which will offer the greatest value for JPS.

Issuance of this Bid does not constitute a commitment by JPS to award any contract or to perform the research services as per the Offer made in response to this RFP.

JPS reserves the right to invite any or all Bidders to make an in-person presentation.

The Contract shall be interpreted in accordance with the laws of the Purchaser's country.

6.0 Bidder Qualifications and Requirements:

Your quote should include, but not limited to:

a) Terms of payment. JPS standard terms of payment is Net 60 days of Invoice date

b) Warranty Terms

The Bidder shall warrant that during the term of the Agreement the services provided by it hereunder will be performed in a workmanlike manner and in accordance with the JPS safety regulations and reasonable commercial standards.

The Bidder warrants that the goods supplied under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Bidder further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except insofar as the design or material is required by the Purchaser's Specifications) or from any act or omission of the Bidder, that may develop under normal use of the supplied Goods in the conditions obtaining in the country of final destination. This warranty shall remain valid for a minimum of twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered (and commissioned) to the final destination indicated in the Contract.

The Purchaser shall promptly notify the Bidder in writing of any claims arising under this warranty. Upon receipt of such notice, the Bidder shall, depending on which of the methods can be achieved more expeditiously with reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Purchaser and under the terms and conditions as if the replacement Goods or parts were being delivered to the Company for the first time.

If the Bidder, having been notified, fails to remedy the defect(s) within a reasonable period, the Purchaser may proceed to take such remedial action as may be necessary, at the Bidder's risk and expense without prejudice to any other rights which the Purchaser may have against the Bidder

7.0 GENERAL CONDITIONS OF CONTRACT

7.1 Proprietary Content

JPS understands that certain elements of the Bidder's proposal may contain information, including pricing, that is competitively sensitive. JPS acknowledges that all information furnished in the proposals will be for the exclusive use of JPS, in evaluating and selecting a Contractor for the supply of goods and services all parties will respect the sensitive nature of that information in accordance with sound commercial practices.

7.2 Prices

Prices listed by the Bidder of the service to be provided under the Contract shall not, with the exception of any price adjustments authorized, negotiated and agreed on by Contractor and JPS, vary from the prices quoted by the Contractor in its bid.

7.3 Terms of Payment

The JPS shall pay the Contractor for the services within ninety (90) days of receipt of the Contractor's undisputed invoice.

7.4 Contract Amendments

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the duly authorized agents of both parties.

7.5 Subcontract

The Contractor shall notify the JPS in writing of all subcontracts awarded under the Contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the contractor from any liability or obligation under the Contract with the JPS.

If the bidder submitting a proposal must outsource or contract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Additionally, all costs included in proposals must be all-inclusive to include any outsourced or contracted work. Any proposals which call for outsourcing or contracting work must include a name and description of the organizations or persons being contracted.

7.6 Delays in the Contractor's Performance

If at any time during the performance of the Contract, the Contractor or its subcontractor(s) should encounter conditions impeding timely performance of the services, the Contractor shall promptly notify the JPS in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Contractor's notice, the JPS shall evaluate the situation and may at its discretion extend the Contractor's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract, or terminate the Contract in accordance with the provision of clause **7.8**

7.7 Penalties

Failure to submit the Deliverables to the Company within the timelines specified will result in the Contractor being liable to the company payments of sums equivalent to ten percent (10%) of the value of compensation and or liquidated damages payable by the Company in respect of such Deliverable.

7.8 Termination

The JPS may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the Contract in whole or in part:

(a) If the Contractor fails to perform any other obligation(s) under the Contract.

(b) The JPS may by written notice sent to the Contractor, terminate the Contract, in whole or in part, at any time for its convenience by giving seven (7) working days' notice. The notice of termination shall specify that termination is for the JPS convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

7.9 Force Majeure

The Contractor shall not be liable for liquidated damages or termination for default, if and to the extent that, the delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For the purposes of this clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the JPS either in its sovereign or contractual capacity, wars or revolutions, fires, floods, hurricanes, epidemics, quarantine restrictions and freight embargoes.

If a Force Majeure situation arises, the Contractor shall promptly notify the JPS in writing of such condition and the cause thereof. Unless otherwise directed by the JPS in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

Appendix I

**REQUEST FOR PROPOSAL (RFP)
JPS RFP # 882446 – GT3 Combustion Inspection**

GENERAL INFORMATION

Name of Organization: _____

Address: _____

Key Contact: _____

Title: _____

Telephone Numbers: _____

Email Address: _____

Company Profile

Please submit the requested information below:

- Directors names and profiles
- Company references
- Complete set of audited financial statements for the last two (2) years
- Average employee tenure
- Staff turnover ratio
- Names of top 5 executives, their tenure, experience, qualifications etc.
- Three (3) top achievements of the company in the last 5 years
- Companies must state 5 reasons for JPS to consider Partnering/Selecting them (your company) for this RFP
- Organizational structure for the top five levels in your organization.
- Please provide a short profile such as name, title, experience and education level for the personnel at the top five levels within the organization
- How long has your company been in business?
- How many people do you employ?
- Does your company currently have a Risk Management or Business Continuity Programme in place?
 - If yes, please provide details of the programme you have in place
- Three (3) Customer references (for similar purchases)

Appendix II

Response Template

Name of Bidder: _____

Signature of Bidder: _____

Payment Terms

Purchaser's preference: Net 90 days Bidder's proposal: Net _____ days

Price Schedule in United States Dollars

Along with detailing all charges in their proposal, Bidder is required to complete below to summarize the costs.

SUMMARY RATE SHEET

Item	Description	Labour			Other Costs (\$)
		Man Hours	Hourly Rate	Cost (\$)	
1	<i>Technical Advisor(s)</i>	<i>10 hrs.</i>	<i>\$2</i>	<i>\$20.00</i>	
2	<i>Tools</i>				<i>\$10.00</i>
3					
4					
5					
	TOTAL				

*The first and second rows have been completed as an example only. It should not be included in the calculation of your bid submission as the rates are fictitious. Additional rows can be added, if required.

EXPECTED DURATION

Item	Number of Shifts	Days
1	Single	
2	Double	

Appendix III

GT 3 COMBUSTION INSPECTION

This will include, but not limited to:

- Replacement of Combustion Components with new and/or refurbished components

UNIT INFORMATION – BOGUE POWER STATION GT-3

Unit Name	GT3
Manufacturer	John Brown Engineering
Maximum Capacity Rating (MCR)	21.5MW
Turbine Serial number	214406
Frame Size	MS5001 [P/NT]
Fuel Type	No. 2 Distillate
Model	PG5371
Control System	Triconex [TS 3000 Simplex]

INTENDED SCOPE OF WORKS

Mobilization

- Move on job site.
- Orientation and Job briefing
- Record baseline operating data.
- Before proceeding with the inspection ensure the gas turbine is shut down and cooled to allow work to be performed on the unit, electrical power is tagged out and the CO₂ system is deactivated.

Disassembly

- Remove turbine compartment roof and side panels.
- Remove fuel nozzles.
- Remove flame detectors and spark plugs.
- Remove eleventh stage cooling and sealing air lines
- Unbolt and open up combustion outer casing covers.
- Remove crossfire tube retainers, combustion liners, crossfire tubes, and flow sleeves.

- G. Remove outer combustion casings and aft flow sleeves.
- H. Remove transition pieces.

Inspection

- A. Record all part descriptions and respective serial numbers of all capital combustion spares removed and repackage in appropriate container.
- B. Visually inspect all removed combustion hardware.
- C. Perform inspection of vanes and bushings (see TIL 1068-2R1.)
- D. Wire brush and hone all joints.
- E. Visually inspect all piping before reinstalling.
- F. Visually inspect inlet filter house
- G. Visually and functionally inspect Over speed bolt assembly.
- H. Conduct borescope inspection of Compressor and Hot Gas path
- I. Perform visual inspection of the Load Gear Box (via inspection port)
- J. Perform visual inspection on Load Gear Box Coupling
- K. Inspection and servicing of the Accessory Gear Box (via inspection port)
- L. Perform visual inspection on Accessory Coupling
- M. Perform visual inspection of the Inlet Air Plenum and Ducting
- N. Perform visual inspection of the Exhaust Plenum

Preliminary Report

- A. Provide preliminary report on parts removed and details of all observed defects/damages with recommendation for repairs.

Reassembly

- A. Install transition pieces.
- B. Install outer combustion casings and aft flow sleeves.
- C. Install crossfire tubes and retainers, combustion liners, and forward flow sleeves.
- D. Install combustion outer casing covers.
- E. Install eleventh stage cooling and sealing air piping.
- F. Install flame detectors and spark plugs.
- G. Install fuel nozzles
- H. Install fuel lines.
- I. Install turbine compartment roof and side panels.

Check-Out/Start-Up

- A. Mechanical Pre-Start-Up Checks
 - a. Pre-start-up system walk through inspection
 - b. Release LOCK-OUT TAG-OUT clearance
 - c. Turn-on lube oil System

- d. Place unit on ratchet mode
- B. Mechanical Start-Up Checks
 - a. Perform crank, fired, and full-speed-no-load (FSNL) unit checks
 - b. Record and review unit operating data
- C. Reporting (Prior to Start up)
 - a. Provide a copy of ALL technical inspection sheets prior to Unit start up.
 - b. Provide preliminary report prior to start up.

START-UP CHECKS

- ✓ Diagnose and resolve system diagnostic errors. eg. Voltage mismatch
- ✓ Identify and resolve nuisance alarms in project, example SOE point errors
- ✓ Perform system functionality checks.
- ✓ Support Unit startup.
- ✓ Provide documentation regarding the following tests: (1) Turbine Overspeed Test (2) Black Start Test (3) IGV calibration.

COMPLETION

- ✓ Remove tags and prepare the unit for operation.
- ✓ Leak-check all areas of turbine at first operational run.

DEMOBILIZATION

Mobilize / Move off site

- ✓ Load and ship tools
- ✓ Verify site and equipment are orderly
- ✓ Demobilize

FINAL REPORT

- ✓ Furnish inspection report within two (2) weeks after Unit start up. Report to include table of listing Technical Information Letters executed during the inspection

END OF DOCUMENT