



June 17, 2021

**JPS Request for Proposal # 883801 –  
GENERATOR GAP3 & TWO COIL REWIND AND ROTOR BORE LEAD  
OUT CONDUCTOR REPLACEMENT**

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:**

**BOK HOA JEONG (CHAIRMAN)**

**NADANI CHUNG**

**MINNA ISRAEL**

**HON. CHARLES JOHNSTON**

**SEIJI KAWAMURA**

**DONG UK KIM**

**MOHAMED MAJEED**

**DENNIS MORGAN**

**HON. DANVILLE WALKER, O.J., J.P.**

RFP 883801 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 JPS website
- 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.

ShareFile Access will be removed when the bid closes.

Regards,

JPS Purchasing Department

JAMAICA PUBLIC SERVICE  
COMPANY LIMITED

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KINGSTON 5, JAMAICA

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## **Jamaica Public Service Company Limited**

**GENERATOR GAP3 & TWO COIL REWIND AND ROTOR BORE LEAD OUT  
CONDUCTOR REPLACEMENT**

**ANNUAL OVERHAUL 2021 CONTRACTOR WORK SCOPE  
BOGUE POWER STATION**

### **Request for Proposals**

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**GENERATOR GAP 3 SERVICES**

**RFP# 883801**

## **1.1 INTRODUCTION**

Jamaica Public Service Company Limited (JPS) invites suitably qualified service providers to execute a Gap 3 & Rotor Two coil rewind and bore lead out conductor replacement on its ST14 General Electric (GE) TEWAC Generator rated 50KVA/11.5KV. This is located at Bogue Power Station.

The maintenance assessment will address preventative and corrective maintenance activities of the Generator.

The start date of the outage is not yet confirmed and may be subject to change due to the dynamics of power generation supply and other factors. It is scheduled for 1<sup>st</sup> Quarter 2022. The contractor should provide flexibility within their proposal for reasonable changes that may occur to the planned commencement date references above.

## **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.

Workmanship and finish shall be equal to or above the current industry practices for the respective type of work. The contractor must provide personnel to correct any defects / re-works that may be presented during and after the recommissioning of said equipment's at no additional cost to JPS.

If the conditions in terms and conditions are not complied with, JPS will undertake the corrective activities at the contractor's expense

- Provide adequate after-sales support: readily accessible spare parts inventory, Competent personnel to provide technical and general assistance.

## **JPS RFP# 883801**

- Engineers and other support personnel must have their own Personal Protective Equipment (PPE)
- Comply with
  - i. Jamaican Government Regulations for travel and quarantine requirements
  - ii. JPS Covid-19 protocols
  - iii. JPS Health Safety and Environment policies which include (but is not limited to) -
    - a. Contribute to JPS Behavior Based Safety Observation Program by conducting observations
    - b. Reporting hazards, accidents and incidents to the work area supervisor
- Have available inventory of special tools to complete jobs.
- Contractor shall be solely responsible for the safety of his material, tools and equipment and to ensure the safety of JPS staff, property during execution of works.
- Contractor shall ensure that all work complies with Jamaican Law related, but not limited, to:
  - i) All building codes
  - ii) All fire codes
  - iii) All work safety related regulation
  - iv) All construction power and water related regulation
  - v) All Covid-19 protocols

### **Permit to Work Procedures**

Acquire permit to work as per JPS procedure inclusive but not limited to Lock out Tag out (LOTO), Hot Work, Energized Work Permit (EWP), Confined Space. This must be taken out by competent contract supervisor/s.

It is emphasized that aspects of the Generator GAP 3 maintenance inspection involves confined space entry work, as such the contractor shall comply with JPS policies and procedures governing confined space entry and works

### **Health Safety and Environment**

#### **Use of JPS HSE Equipment**

The contractor must take due care of the company issued gas monitors failure to so will result in charges/fines to the contractor to recover the cost of repairing the gas monitor, due to negligence or improper usage. The cost of the damages will be evaluated by JPS and this cost will be deducted from the contractor's bid total.

#### **Contractor Safety Apparel**

The contractor shall provide safety apparel inclusive of PPE, mandated by the owner for the works, to all contractor staff.

The contractor shall provide high visibility clothing and safety cones when carrying out works along the main plant thoroughfares and other roadways.

JPS reserves the right to refuse contractor request for safety apparel inclusive of PPE. If such request is granted, the cost of the items will be documented and presented to the contractor. The cost of Safety apparels withdrawn from the stores and issued to the contractor will be deducted from the contractor bid total.

**Hazard Assessment**

Ensure that the On-Site Job Briefing of all associated works are fully understood and documented and Job Hazard assessment exercises are continually reviewed and adjusted as necessary.

**Contractor Tools and Equipment**

Ensure Hot Work Equipment are in good condition, acceptable by JPS standards (power source, welding leads, torches, cylinders, flash back arresters, hoses, whip check, fire watch personnel, etc.). Power sources requirement on the Plant are based on 220 Volts & 120 Volts or otherwise bring own power supply.

The contractor must ensure that all equipment and tools to be used for the works are safe and reliable. Tools and Equipment will be subjected to inspection by JPS Representative. If tools and equipment are found to be defective and pose a safety risk, the contractor will be ordered to remove same from plant and obtain suitable replacement.

**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  
Alexa Brown**

[aaiken@JPSCO.com](mailto:aaiken@JPSCO.com)  
cc: [agbrown@JPSCO.com](mailto:agbrown@JPSCO.com)

Email Subject: **JPS RFP # 883801 – Generator GAP 3 ETC. BOGUE PS**

**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 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 Thursday July 15, 2021.**

<b>RFP CALENDAR</b>		
<b>ACTIVITY</b>	<b>DUE DATE</b>	<b>RESPONSIBILITY</b>
RFP date	June 17, 2021	JPS
Bidder submits questions on RFP	June 24, 2021	Bidder
Final date to respond to all queries (posted on JPS website)	June 29, 2021	JPS
Bidder confirms intention to bid	June 30, 2021	Bidder
Confirmed Bidder given Shared file access to upload bid	July 2, 2021	Bidder
Completion of RFP and deadline for submission of bids to JPS	11:59pm July 15, 2021	Bidder
Closed Bid Opening	July 16, 2021	JPS
Complete Bid Evaluations	July 30, 2021	JPS
Recommendation to Award submitted to JPS Approvers	August 5, 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 an 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 3<sup>rd</sup> 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)

<b>TECHNICAL CRITERIA</b>	<b>Result</b>
Technical Specification	Pass or Fail

<b>COMMERCIAL EVALUATION CRITERIA</b>	<b>Score (%)</b>
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

**(c) Claims**

After completion of all works the contractor shall submit all outstanding invoices for processing no more than seven (7) calendar days after completion of the works. Failure to do this may result in payment delays.

**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 sixty (60) 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 sub-contractor(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.

**7.10 Distribution of Responsibilities**

The distribution of responsibilities between JPS and the successful bidder is shown in the below check list

**HEALTH SAFETY, SECURITY AND ENVIRONMENT**

ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Personal safety equipment(hard hats, eye protection, ear protection, cotton uniform, gas mask etc. and/or any other requirement specific to the site		X
2	Site specific HSE orientation for labor force	X	X
3	First aid facility, assistance in obtaining medical care, access to JPS medical sites, emergency care ambulance	X	
4	The contractor must comply with all Government of Jamaica (GOJ) and JPS COVID-19 Protocols Isolate and Lockout – Tag out permit system associated with the work scope		X
5	Confine space work monitoring equipment & calibration thereof	X	
6	Confine space attendant	X	
7	Fire watch personnel for limited hot work	X	
8	Fire watch extinguishers, if necessary	X	
9	Electricians/Technicians to LOCKOUT-TAGOUT, disconnect and reconnect wiring and conduit necessary for disassembly/reassembly	X	
<b>MANPOWER, LICENSES &amp; INSURANCE</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Permits, licenses, governmental or public utility charges and inspection fees necessary to conduct work	X	
2	Electrical tests and necessary maintenance and/or repairs on all electrical motors or power circuit, if required	X	

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3	Periodic electrical megger testing to monitor generator stator & field condition during outage	X	X
4	Operating personnel to perform operation of generator equipment, drain and fill lube oil systems, start –up, lube oil flushes etc	X	
5	Furnish complete list of inspection results, including details of conditions found, corrective actions taken and unusual conditions observed		X
<b>TOOLING/EQUIPMENT</b>			
<b>ITEM</b>	<b>RESPONSIBILITY</b>	<b>JPS</b>	<b>CONTRACTOR</b>
1	Certified operator for crane or forklift, with required safety training	X	
2	Certified crane or forklift	X	
3	Trash containers and disposal of all materials used	X	
4	Wash facilities	X	
5	Sanitary facilities	X	
6	Change facilities for crew	X	
7	Office facilities for contractor	X	
8	Normal plant service for maintenance such as light, water, compressed air and electric power(110/220/380V)	X	
9	Supplementary lighting	X	
10	Specialize tooling (skid pan, shoe shaft, field rigging, generator special tooling)	X	
11	Engine driven welding machine, leads	X	
12	Engine driven air compressors, leads	X	
13	Acetylene and oxygen	X	
14	Scaffolding with certified scaffolders	X	
15	Consumables or miscellaneous materials – rags, joint compounds, solvents, greases, special paint etc		X

**SUPPLIES**

ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Miscellaneous spare parts (diodes, fuses, turbine oil, bolts, gaskets, filters etc.)	X	
2	Protective covering and heaters to maintain generator while disassembled	X	
3	Designated work and lay down areas accessible to crane and generator rotor	X	
4	Generator rotor supports	X	
5	Specialize paints & other chemicals for cleaning & spray painting of Generator Stator		X
6	Specialize test equipment for carrying out inspection and testing of the Generator & Stator		X
7	Tooling required to carry out the job		X
<b>PROJECT SUPERVISION</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Technical Direction		X
<b>FACILITIES</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Machine shop facilities, on-site machining	X	
<b>PRE-MAINTENANCE ACTIVITIES</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Remove generator from service prior to start of work on site and electrically isolate from the system – include disconnecting bus work in bushing boxes and later reconnecting following work completion	X	
2	Remove turbine and collector end upper-half and lower-half inner and outer end shields		X

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3	Remove generator field from stator and place in a lay down area that will not interfere with work to be performed around stator		X
4	Remove generator lube oil system from service, TA-GOUT, and drain prior to the start of work	X	
<b>CRAFT LABOUR</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Specialize craft labor to perform the scope of work defined		X
2	Specialize Electricians(Generator) to perform the scope of work and testing defined		X
3	Provide certified crane operator(s)	X	
4	Provide certified forklift operator(s)	X	
<b>STORAGE REQUIREMENTS</b>			
ITEM	RESPONSIBILITY	JPS	CONTRACTOR
1	Upon receipt at site “short shelf-life items should be stored preferably in a dry environment with a temperature range of 60°F to 75°F	X	

**Appendix I**

**REQUEST FOR PROPOSAL (RFP)**

**JPS RFP # 883801 – Generator GAP 3 ETC. BOGUE PS**

**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 60 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**

\*Additional rows can be added, if required.

<b>GENERATOR &amp; AUXILIARY WORK SCOPE DETAILS</b>	<b>COST- SINGLE SHIFT (12-HOURS X 7 DAYS)</b>	<b>COST – DOUBLE SHIFT (24-HOUR X 7 DAYS)</b>
<b>GAP 3 INSPECTION</b> <ul style="list-style-type: none"> <li>• DISASSEMBLY OF GENERATOR</li> <li>• GENERATOR INSPECTION &amp; TESTING</li> <li>• GENERATOR CLEANING</li> <li>• GENERATOR PAINTING</li> <li>• GENERATOR FAN BLADES</li> <li>• OIL DEFLECTORS</li> <li>• GENERATOR RE-ASSEMBLY</li> <li>• BORESCOPE INSPECTION OF R-RING &amp; STATOR</li> </ul>		
<b>BORE LEAD REPLACEMENT</b> <ul style="list-style-type: none"> <li>• RETAINING RINGS OFF INSPECTION</li> <li>• TWO COIL REWIND UTILIZING EXISTING COPPER WITH NEW INSULATION</li> </ul>		
<b>TOTAL</b>	<b>USD</b>	<b>USD</b>

**RFP# 883801**

<b>MATERIALS &amp; EQUIPMENT</b>	<b>COST</b>
INSULATION MATERIALS FOR RETAINING RINGS OFF REINSTALLATION (PLEASE LIST)	
LEAD OUT BORE CONDUCTOR	
INSULATING MATERIALS FOR TWO COIL REWIND (PLEASE LIST)	
TEST EQUIPMENT (PLEASE LIST)	
SPECIALIZE RETAINING RING TOOLS(PLEASE LIST)	
GENERAL GENERATOR TOOLS (PLEASE LIST)	
PAINTS & EPOXY FOR STATOR REPAINTING & CORONA MITIGATION(PLEASE LIST)	
MISCELLANEOUS MATERIALS (PLEASE LIST)	
<b>TOTAL</b>	<b>USD</b>

Bidders are required to itemize all material in their proposal using the sub-headings above – for example, quantity, description, unit and total prices.

**Appendix III**

**1. OBJECTIVES**

To complete the inspection and repair of the Generator

**2. NAME PLATE DATA**

Make: GE TEWAC STG  
Driver: CC Steam Turbine  
Serial No.: 270T608  
Rating: 50,800kva/40.6MW  
Generator No.: 290T608  
Frame: B.D.A.X70-80  
Armature Amps: 2550  
Armature Volts: 11500  
Field Amps: 836  
Field Volts: 155  
Excitation Volt: 155  
Exciter Amps: 967  
RPM: 3000

**3. SCOPE OF WORKS**

**Generator Disassemble & Rotor Removal & Reinsertion**

- Take all as found clearance measurements
- Unbolt and remove inlet and outlet lube oil lines from bearings and secure end of pipes and entry on bearings
- Unbolt and remove both halves of Outer End shield from the EE and TE end
- Remove both halves of inner end shields (Air Nozzle) from the EE and TE end
- Remove upper bearing cover for the No. 3&4 Generator bearing
- Remove coupling guard
- Uncouple Generator from Turbine
- Remove Upper half of Generator bearings
- Set up jig to support rotor field
- Remove lower half of generator bearings
- Install skid plate, journal shoe and rotor shoe

- Jig and pull rotor from stator, using blocking as required
- Place rotor field in secure location for two coil rewind and Bore Lead out Conductor replacement
- Receive Rotor Field after repairs
- Carry out Electrical Testing on Rotor field
- Reassemble Generator

## Inspection and Testing

The following inspection/checks and tests shall be performed by the Contractor:

### Bearings

- Remove Nos. 3 and 4 journal bearings and perform the following checks:
- Visually inspect liners for defects. Perform ultrasound test to determine the percentage contact of Babbitt to parent metal.
- Measure and record bearing journal sizes, at least 4 points along the journal length. Examine journal surface condition and polish to a smooth finish.
- Measure and record bearing liner bore for correct size and taper.
- Ensure correct bearing oil clearances
- Check bearing housing and seat to ensure self-alignment and proper seating in ball seat, bluing of contact areas to ensure a minimum of 90% contact.
- Perform tilt and twist checks of bearing to journal at re-assembly.
- Perform pinch test on bearing upper half and cap.
- Remove and examine all oil deflector seals re-establish knife-edge and check for correct shaft clearances.
- The above steps (i) thru (viii) must be repeated where applicable if renewal parts are to be installed.
- Clean and inspect the bearing-ring assembly. Record the insulation resistance and ensure keep bearing-ring insulation resistance is maintained.
- Clean strainers upstream of feed orifices. xiii. Clean bearing drain vent line.

## Generator Stator Works

Carry out general electrical inspection on Generator Stator and recommendation/s as to:

- Mechanical Issues
- Electrical Issues
- Thermal Issues
- Environmental Issues

Carry out the following Electrical Testing on the Generator Stator

- Dolby PF Testing
- IR and PI Testing
- Wedge Tightness
- ELCID Testing
- DC Winding Resistance

NB. Cleaning of Generator Stator will be done base on above inspection recommendation.

## Generator Rotor Retaining Rings off Intervention – two coil rewind and bore lead copper replacement

An enclosed sterile area will be erected by JPS at a location on site. This sterile area will be equipment with an overhead crane. All other equipment/s and/or tooling will be provided by the contractor

- Perform maneuver and sit generator rotor over fixed supports
- Remove axial fan rings on both sides
- Remove retaining rings on both sides using induction heating
- Remove ventilation rings under retaining rings using induction heating
- Remove insulation under retaining rings
- Perform visual inspection on rotor end windings
- Take and record measurement data on No. 1 coils before removal
- Remove end wedges on No. 1 Coils
- Remove slot wedges and No. 1 Coils
- Remove existing, radial leads, stud seals and bore lead conductor
- Perform hand cleaning and vacuum on end windings at accessible areas
- Perform end windings radial and axial clearance check
- Perform electrical testing before

Electrical Testing:

- Insulation Resistance Measurement
- Winding resistance measurement
- RSO
- Impedance Measurement □ Pole Balance

## Inspection, Testing and Hand Cleaning of Components

- Inspect field forging by magnetic particle Inspection
- Bead blast copper and inspect existing copper coils for re-use
- Check condition of copper – hardness, size, physical shape and/or deformation
- Electrical Test collector ring insulation, radial lead insulation, lead out/bore lead insulation
- Electrical Test rotating excitation system, components and windings
- Retaining rings
- Axial Fan rings
- Ventilation rings under retaining rings
- End Winding blocking and separators
- Pole to Pole connectors
- End Windings
- Non-Destructive Testing on:
  - Retaining Rings -
    - o Fluorescent dye check
    - o Ultrasonic testing
- Other Components
  - o Axial Fan Rings – fluorescent dye checks
  - o Fan Blades – Fluorescent dye check
  - o Ventilation rings under retaining rings – fluorescent dye check o Rotor shrink fit areas – fluorescent dye check
  - o Amortisseur segments – fluorescent dye check

- Perform anti-flash varnish paint on:
  - o End winding blocking and separators
  - o Pole to Pole connector
  - o End windings

### **Bore Lead Replacement**

Contractor is responsible for supplying new bore lead conductor and all accessories required for its installation

- Inspect and clean out bore
- Supply and install new bore lead conductor and accessories – seals etc

### **Two Coil Rewind utilizing existing copper and new insulation**

- Remove and refurbish wedges
- Remove slot filler material
- Remove coils, cleats and wedges
- Clean and deburr shaft fit areas and slots
- Rewind No. 1 coils
- Temporary wedge and block field
- Perform and record Electrical Testing after installation of each coil

### **Preparation for and Re-Assembly Retaining Rings**

Visually inspect at a minimum – retaining rings, end windings, main leads, radial leads, stud seals, rotor wedges, rotor body, air gap baffle and O-ring and end turn blocking

- Measure and record diameters of shaft fit areas
- Clean fit surfaces of field and removed components
- Clean end turns
- Wedge and block field
- Re-install retaining rings utilizing new insulation materials supplied by contractor

## Electrical Testing to be done after each major component reinstallation

- Insulation Resistance Measurement
- Winding resistance measurement
- RSO
- Impedance Measurements
- Pole Balance

## Secure and return Rotor to ST14 Area

### Contractor to Furnish

- All labor, tools, equipment, supervision, materials and things required for the full completion and execution of the works
- All temporary works, lighting etc.
- Daily job safety briefings
- Consumables and safety gears required to complete these works
- All temporary works such as, lighting etc.
- The provision of convenience electrical power outlets may not be available at the work site; the contractor must provide suitable extension lines

### Owner to Furnish

- Cranes, Fork Lift, scaffoldings
- Job safety briefing forms

### Work Verification

The contractor will provide upon request suitable arrangements for the company to make detailed inspection of the work at all reasonable times by a named person to agreed procedures, methods of verification and acceptance. If the inspections fail to demonstrate the satisfactory nature of the installation thereof, then the company shall decide whether such failure is due to incorrect, inadequate or defective maintenance. If this be so, then the contractor shall carry out such alterations or replacements as are required to the company's satisfaction. The company shall be at liberty to call for a further test when such alterations have been made and his decision as to what constitutes a satisfactory test shall be final.

## Quality of Work

- Workmanship and finish shall be equal to the current industry practices for the respective type of work.
- The contractor must provide personnel to correct any defects / re-works that may be presented during and after the recommissioning of said equipment's at no additional cost to JPS.

## Contractor Expectation

- The Contractor must participate in daily update meetings with JPS Personnel's and all other parties and crews involved in order to coordinate the day's work in the best possible and safest way.
- The Contractor is expected to adhere to JPS Safety Policy and Procedures.
- The Contractor shall participate in the daily debrief meeting with JPS and other prior to work activities
- The Contractor shall provide detailed technical report on works executed within two weeks off completion of work scope.

## Work Schedule

- Considering all work that can be done concurrently the contractor must complete all works within 21 calendar days.
- Work must be executed 8am -8pm and/or on a 2x12hr shift if necessary
- Hours of work – Monday – Sunday

### **4. CONTRACTOR LABOUR RESOURCES**

- The contractor shall employ on the works only such persons as are careful, skilled, experienced and qualified in the performance of the duties required of them.
- The contractor resources should be of a volume and structure anticipated to meet the needs of the works detailed in Scope of Works above.

- The contractor shall submit with his bid a detail a resource listing of all staff compliment (to include a listing of the number of workers and classification per activities in the scope of work document).
- The owner shall be at liberty to object and to require the contractor to remove from the works, any person who in the opinion of the company misconducts himself or herself.
- Or is incompetent or negligent in the performance of his duties, or fails to conform with any particular safety requirement, or persists in any conduct which is prejudicial to safety, health or environment.

**5. SUB-CONTRACTING AND ASSIGNMENTS**

Should the contractor want to assign or sub-contract any part of the work then notification must be given to the owner of what work and to whom. The contractor shall be entirely responsible for all aspects of the works of his suppliers and subcontractors as though he were carrying out such work himself. The owner shall reserve the right to determine what and to whom the contractor may assign work to and before work may be sub-let and no mobilization may take place before is obtained.

**6. VARIATION CONTROL**

- Upon request for the cost of emergent or additional works, the contractor must provide a written quotation to the appointed JPS representative no more than 6 hours after request.
- JPS has the right to obtain quotations for additional or emergent works from any suitable contractor currently doing work on the outage. If for reason related to lengthy submission of quotes requested by contractors, uncompetitive price or other, JPS reserves the right to get quotes from any suitable contractors.
- Under no circumstance shall the contractor proceed with emergent or additional works without approval from the JPS owner representative.

**PICTURE 1**  
**SHOWING REPAIRED AREA OF LEAD OUT CONDUCTOR – 2018**



**\*END OF DOCUMENT\***