



29<sup>th</sup> April 2021

**JPS Request for Proposal # 880379:**

**Control & Excitation System Upgrade for Nuovo Pignone Steam Turbine Unit ST 14 at 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:**

BOK HOA JEONG (CHAIRMAN)

NADANI CHUNG

MINNA ISRAEL

HON. CHARLES JOHNSTON

DONG UK KIM

MOHAMED MAJEED

DENNIS MORGAN

SHOGO OTANI

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

RFP 880379 Activities are guided by the dates stated in the Calendar of Events highlighted in Section 4 of this RFP. Observing these dates,

- 1) Section 2.1 provides Instructions to submit questions via email only
- 2) A combined response to questions will be posted on the JPS website only
- 3) Respondents must confirm their intention to bid in order to be setup in JPS ShareFile folder
- 4) Access to individual vendor folders will be given at least 5 days before the bid closes to eliminate any issues for bid upload by RFP deadline.
- 5) Files must be accurately labelled/named. Financial Proposal must be a separate file from your Technical Information.
- 6) ShareFile Access will be removed when the RFP closes.

Bids will not be accepted via email.

Regards

JPS Purchasing Dept.

JAMAICA PUBLIC SERVICE  
COMPANY LIMITED

6 KNUTSFORD BOULEVARD  
KINGSTON 5, JAMAICA

T: (876) 926.3190-9

F: (876) 936.1800

[www.myjpsco.com](http://www.myjpsco.com)





**JAMAICA PUBLIC SERVICE CO. LTD.**

REQUEST FOR PROPOSALS

**CONTROL & EXCITATION SYSTEM UPGRADE  
FOR  
NUOVO PIGNONE STEAM TURBINE UNIT ST 14  
AT  
BOGUE POWER STATION**

**RFP # 880379**

## **1.0 Background**

The Jamaica Public Service Company Limited (JPS) is seeking qualified offers from suitable supplier to supply install and commission a modern control system to replace obsolete GE 9070 PLC rack with Versa max I/O distribution UNICUS controls and GE EX2000 Brushless excitation system at Bogue Power Station. This system is required for the Nuovo Pignone Steam Turbine (ST14) serial number VO1448.

## **1.1 About JPS**

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 (611.5 MW), hydro and wind (32.5 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.

Along with the provision of electricity, 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.

The Office of Utilities Regulation (OUR) has regulatory authority over JPS' operations.

## **1.2 Purpose of RFP**

JPS seeks proposals from qualified companies that have the expertise, financial and production capability to supply, install and train employees in a modern control system.

Additional information on this project can be seen in Appendix 2.

### **Control and Excitation System Scope**

Bidders are required to provide

- a) A detailed description of the work scope and related activities.
- b) A detailed schedule of major activities
- c) Logistic and Travel Plan for the project, which includes Covid-19 protocols
- d) Identification of local support that is needed and their role in the project
- e) Quality Assurance and Quality Control Plan

### 1.3 Definitions

**Bidder, Vendor or Contractor** shall mean JPS qualified provider of goods and / or services acting in the role of the prime Contractor who responds with a proposal to this RFP.

**Bid/ Proposal** shall mean the Bidder's formal written response indicating committed price, delivery schedule and conformance to product specification

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

**"The Purchaser"** means the Organization purchasing the Goods, i.e. Jamaica Public Service Company limited

**"The Supplier"** means the individual or firm supplying the Goods under this Contract;

**"The Contract"** means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including attachments and appendices thereto and all documents incorporated by reference therein.

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

**"The Goods"** means all of the software, material and/or equipment which the Supplier is required to supply to the Purchaser under the Contract.

**"Services"** means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as the taking of measurements, training and other such obligations of the Supplier covered under the Contract.

**"Approved"** means approved by the Purchaser or its delegated representatives; and

**"Specified"** means specified by the Purchaser; either on drawings, or in writing.

**"Delivery"** means delivered to JPS designated locations unless otherwise specified.

**"Days"** means calendar days acceding to the Gregorian calendar.

This document shall not be construed as a request for the authorization to perform work at JPS expense. Any work performed by the Bidder in connection with preparation and responding to the Request for Proposal (RFP) and, if selected, negotiating a definitive agreement will be at the Bidder's own discretion and expense. This RFP does not represent a commitment to enter into a contract.

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

Additional terms noted in this RFP are defined below:

- **DCS** – Distributive Control System
- **TCP** – Turbine Control Panel
- **SOE** – Sequence of Events
- **GPP** – Generator Protection Panel
- **PLC** – Programmable Logic Controller
- **PAC** – Programmable Automation Controller
- **OS** – Operating System
- **GPS** – Global Positioning System
- **HMI** – Human Machine Interface
- **AVR** – Automatic Voltage Regulator
- **PPT** – Power Potential Transformer
- **OEM** - Original Equipment Manufacturer

## 2.0 General Instructions to Bidders

The Bidder is expected to examine all instructions, terms specifications in the Bidding documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidder’s risk and may result in the rejection of its bid.

## 2.1 Points of Contact (POC)

All communications and questions with JPS regarding this RFP must be directed to the following Points of Contact (POC), in accordance with RFP Calendar in Section 4.0:

Email Subject: JPS RFP # 880379 – ST 14 Control & Excitation Upgrade  
Name: Ann-Marie Woodham [aaiken@jpsco.com](mailto:aaiken@jpsco.com)  
CC: Charmaine Shaw [cshaw@jpsco.com](mailto:cshaw@jpsco.com)

## 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.

If for some reason, the Bidder cannot supply all materials electronically, hard copies will be accepted.

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 RFP Amendment and Cancellation**

At any time prior to the deadline for submission of bids, the Purchaser 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, and will be binding on them.

In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser 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.

### **2.4 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.

### **2.5 Written Clarification**

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

## 2.6 Oral Clarification

If requested, the vendor will make an oral presentation to the Proposal Evaluation Team and other designated Company representatives. All expenses for the presentation will be borne by the vendor.

## 3.0 Bid Format

The bid shall be prepared in two (2) parts, technical and financial. Technical should not contain any pricing information. The financial proposal shall be separate and contain price information as set out in B below.

The proposals must include the following in the prescribed order below:-

### A. Technical Proposal

Completed General Information Sheet along with:

- (a) A list of similar projects completed in the last 5 years
- (b) Software and Equipment Details
  - a. Specification Sheets
  - b. Warranty
- (c) Company Brochure
- (d) Safety Track Record
- (e) Technical capability
  - a. Team experience
  - b. If you are not the OEM, your company's certification/authorization letter is required from the OEM
- (f) Last two (2) years audited financial statements
- (g) Any additional information deemed fit for consideration

### B. Financial Proposal

The financial proposal shall consist of cost estimates along with a payment schedule, and:

- (a) Preliminary Schedule with manpower and equipment requirements
- (b) Bidders should quote on the full package, and should include any applicable volume discounts or rebates
- (c) Draft Contract to complete this project at Bogue PS

## 3.1 Bid Prices

The Bidder shall indicate the unit prices and total Bid Prices of the goods and services it proposes to supply under the Contract:

Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract. If prices are subject to an adjustment clause, Bidder must state:

1. the variables that will affect the price
2. the reference index that will govern movement of prices and
3. the base price index.

### **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 county.

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

### **3.5 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 Proposal Response

All responses must in English Language. Your bid responses must be presented in two (2) separate packages, namely Financial Proposal and Technical Specification.

The deadline to upload bids is **11:59pm May 20, 2021**.

<b>RFP CALENDAR</b>		
<b>ACTIVITY</b>	<b>DUE DATE</b>	<b>RESPONSIBILITY</b>
RFP date	April 29, 2021	JPS
Bidder submits questions via email to RFP Points of Contact	May 5, 2021	Bidder
Final date to respond to all queries	May 7, 2021	JPS
Bidder indicates intention to bid	May 10, 2021	Bidder
JPS provides Bidder with access to Sharefile Folder	May 11, 2021	JPS
Completion of RFP and deadline for submission of bids to JPS	11:59pm* May 20, 2021	Bidder
Closed Bid Opening	May 21, 2021	JPS

\*Time in Jamaica

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. The dates are subject to change on the RFP Calendar. Prior to award, this RFP and bid responses are subject to review and final approval by JPS Senior Management.

##### 4.2 Late Bids

Any bid received by the Company after the deadline for submission of bids prescribed by the Company will be rejected and/or returned unopened to the Bidder.

##### 4.3 Sealing and Marking Bids

Technical and Commercial/Financial bids must be in **separate folders** and clearly labelled accordingly in your Sharefile folder.

#### 4.4 Proposal Rejection

Any bid received after the deadline for submission of bids prescribed by the Company will be rejected and/or returned unopened to the Bidder. Any proposal received that does not meet the requirements of this RFP may be considered to be non-responsive, and the proposal may be rejected.

Bidders must comply with all of the terms of this RFP. JPS may reject any proposal as being non-responsive that does not comply with the terms, conditions and characteristics of this RFP or the key criteria for selection.

JPS reserves the right, at its sole discretion, to reject any and all proposals or to cancel this RFP in its entirety, and to accept a proposal other than the lowest price or proposal presented outside of this RFP that meets the company's requirement. JPS assumes no responsibility for delays caused by any internet service provider or malfunctioning computer.

#### 5.0 Selection Process and Award Criteria

JPS will evaluate proposals using an internal scoring method that weighs various parameters to give the evaluation team insight into the strengths of each proposal relative to JPS needs. 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

#### 5.1 Opening of Bids by Purchaser

In observance of the RFP calendar, the Purchaser will open bids privately.

#### 5.2 Schedule

For purposes of responding to this RFP, Bidders should assume that JPS' procurement and implementation planning will be completed as per RFP Calendar.

#### 5.3 Clarification of Bids

To assist in the examination, evaluation and comparison of bids the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted, except as required to confirm the correction of arithmetic errors.

#### **5.4 Preliminary Examination**

The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

Arithmetical errors will be rectified on the following basis:

1. If there is a discrepancy between the unit price and the total price, the unit price shall prevail;
2. If there is a discrepancy between words and figures, the amount in words shall prevail;
3. If the supplier does not accept the correction of errors, its bid shall be rejected.

Prior to the detailed evaluation, the Purchaser will determine the substantial responsibilities of each bid to the Bidding Documents. For purposes of these Clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the Bidding documents without material deviations or reservations. A material deviation or reservation is one which affects in any substantial way the scope, quality or performance of the contractual obligations or which limits in any substantial way or inconsistent with the bidding documents and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantially responsive bids. The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

The Purchaser 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.

**Bid inconsistencies:** Any deviation in a bidder's proposal that are inconsistent with the provisions of this Bid, unless expressly described in the proposal as being exceptions or alternates, are deemed waived by the Bidder. In the event that the Contract is awarded to the bidder, any claim of inconsistency between the proposal and this Bid will be resolved in favor of this bid unless otherwise agreed in writing.

#### **5.5 Conversion to Single Currency**

The currency of all Bids must be United States Dollars.

## **6.0 Award of Contract**

### **6.1 Award or Rejection**

The Purchaser will award the contract to the successful Bidder(s) whose bid has been determined to be substantially responsive. The Purchaser reserves the right not to accept the lowest bid if it does not meet JPS requirement.

Issuance of this bid does not constitute a commitment by JPS to award any contract or purchase products or services offered in response to this bid.

### **6.2 Purchaser's Right to Accept Any Bid and to Reject Any or All Bids**

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

### **6.3 Notification of Award**

Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder in writing by email or fax, that its bid has been accepted. Upon the successful Bidder's signing a contract with JPS for the subject RFP, the Purchaser will promptly notify each unsuccessful Bidder.

### **6.4 Signing of Contract**

At the time at which the Purchaser notifies the successful Bidder that its bid has been accepted; the Purchaser will send the Bidder the Contract Document incorporating all agreements between the parties.

## **7.0 General Conditions of Contract**

These General Conditions shall apply to the extent that provisions in other parts of the Contract do not supersede them.

### **7.1 Standards**

The **Modern Control & Excitation System** supplied under this Contract shall conform to the standards mentioned by software and equipment brand and model numbers and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin, and such standards shall be the latest issued by the concerned institution.

### **7.2 Use of Contract Document and Information**

The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, of any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be

made in confidence and shall extend only as far as may be necessary for purposes of such performance. The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in the above paragraph except for purposes of performing the Contract.

Any document, other than the Contract itself, as enumerated above shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

**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 Supplier, and that all parties will respect the sensitive nature of that information in accordance with sound commercial practices.

**7.3 Inspection and Tests**

The Purchaser or its representative shall have the right to inspect and/or to test the System to confirm its conformity to the Contract.

Should any inspected or tested Goods fail to conform to the Specifications, the Purchaser may reject them and the Supplier shall either replace the rejected Goods, or make all alterations necessary to meet the specification requirements free of cost to the Purchaser.

The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods arrival in the Purchaser's country shall in no way be limited or waived by reason of the Goods having been previously inspected, tested and passed by the Purchaser or its representative prior to the Goods' shipment from the country of origin.

**7.4 Delivery and Shipment**

The Supplier shall be entirely responsible for all taxes, duties, license fees, port charges and other such levies imposed by the country of origin. Additionally, valid insurance and relevant documentation must be in place based on the Laws of the foreign country.

**7.5 Prices and Payment**

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not, with the exception of any price adjustments authorized and agreed on by Supplier and Purchaser, vary from the prices quoted by the Supplier in its bid.

Payment shall be effected in United States Dollars using supplier's invoice, after receipt and acceptance of the product by JPS.

The preferred payment term for JPS to its Supplier is through open account, net 90 days of receipt of invoice from the supplier. Should the supplier not opt to have payment made via open account, a 5% charge will be added to the bidders' payment proposal in the evaluation process.

## **7.6 Warranty**

The control and excitation system must carry: OEM approval, Manufacturer's warranty and Independent accreditation for all software and supporting telecommunication equipment.

The Supplier warrants that the control and excitation system supplied under the Contract conform to the Manufacturer's written specifications and comply with the products' performance claims.

This warranty shall remain valid for the duration of the contract.

The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

Upon receipt of such notice, the Supplier shall, depending on which of the methods can be achieved more expeditiously with reasonable speed,

- Replace without costs to the Purchaser and under the terms and conditions as if the replacement material/equipment were being delivered to the Company for the first time; or, refund the purchase price of any products not conforming to this warranty
- Pay to repair damage to equipment to the extent that the damage is caused by the failure of the product to conform to specifications or comply with product performance claims

If the Supplier, 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 Supplier's risk and expense without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

## **7.7 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.

## **7.8 Assignment**

The Supplier shall not assign, in whole or part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

## **7.9 Subcontracts**

The supplier shall notify the purchaser 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 supplier from any liability or obligation under the Contract with the Purchaser.

## **7.10 Delays in the Supplier's Performance**

If at any time during the performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the

Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract, or terminate the Contract for default.

#### **7.11 Termination for Default**

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

- (a) If the Supplier fails to deliver any or all of the Goods within the time period(s) specified in the Contract, or any extension thereof granted by the Purchaser.
- (b) If the supplier fails to perform any other obligation(s) under the Contract.

In the event the Purchaser terminates the Contract in whole or in part. The Purchaser may procure, upon such terms and in such manner, as it deems appropriate, the control and excitation system similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods. However, the Supplier shall continue performance of the Contract to the extent not terminated.

#### **7.13 Force Majeure**

The Supplier shall not be liable for forfeiture of its performance security, 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 Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser 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 Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier 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.

#### **7.14 Termination for Insolvency**

The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, without compensation to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

### **7.15 Termination for Convenience**

The Purchaser, may by written notice sent to the Supplier, terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be purchased by the Purchaser at the Contract terms and prices. For the remaining goods, the Purchaser may elect:

- (a) To have any portion completed and delivered at the Contract terms and prices; and/or
- (b) To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

### **7.16 Governing Language**

The Contract shall be written in the language of the bid, English. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in that same language.

### **7.17 Applicable Law**

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

### **7.18 Resolution of Disputes:**

The dispute resolution mechanism to be applied shall be as follows:

- (a) In the case of a dispute between the Purchaser and a Supplier which is a national of the Purchaser's country, the dispute shall be referred to adjudication/arbitration in accordance with the laws of the Purchaser's country; and
- (b) In the case of a dispute between the Purchaser and a foreign Supplier, the dispute shall be settled by arbitration in accordance with the provisions of the UNCITRAL Arbitration Rules.

There shall be one Arbitrator.

### **8.1 Delivery**

It is preferred that all deliveries / imports shall be made in accordance to Incoterms 2020, DDP JPS Bogue Power Station. Bidders may offer an alternate Incoterm in their proposal.

### **8.2 Specifications**

All Offers should include detailed specification of the product and service being offered in the technical proposal.

**APPENDIX 1**

**REQUEST FOR PROPOSAL (RFP) # 880379  
ST14 Control and Excitation System at JPS 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 projects)

## APPENDIX 2

### ADDITIONAL INFORMATION

**Note to Bidder:** In observance of the RFP Calendar's deadline to submit questions, it is expected that the Bidder will request any other information that maybe needed to submit a complete proposal for this project.

### INTEGRATED STEAM TURBINE DRIVE CONTROL SYSTEM – SUPPLY, INSTALLATION AND COMMISSIONING AT JPS BOGUE PS

- **Dual redundant Drive control system for Steam Turbine**
  - Redundant PLC drive system with supporting interfaces, digital and analog input output modules, communication interfaces for integration with other existing Ovation DCS using Modbus TCP, Ge MK6e and other axillary systems such as Bently Nevada.
  - Auto and manual synchronization equipment with compatibility to existing related field devices such as PTs and CTs.
  - Control cables and wiring to facilitate interconnect between existing auxiliaries and new control system.
  - Generator measurement to include running hours, real power, current, reactive power, voltage, frequency etc.
  - Local HMI in proximity to Turbine control system and Remote HMI located in the DCS control room for operator interface.
  - Audible alarm annunciation on remote HMI and Ovation DCS control system.
  - Running hours, total start and trip counter.
  - Integration of Steam turbine barring Gear system into main control system.
  - System should be equipped with GPS clock for time synchronization.
  - System will be tied to DCS historian however must have local capacity to store local trips and events for at least 60 days.
  - Must have SOE on all critical points.
  
- **Software specification for Existing Unicus Control system**
  - Windows 10 OS
  - Cimplicity Machine Edition revision 10
  - PAC Emerson Machine Edition revision 9.5

## **INTEGRATED BRUSHLESS EXCITATION SYSTEM – SUPPLY, INSTALLATION AND COMMISSIONING AT JPS BOGUE PS**

- **Simplex Brushless Voltage Regulator Excitation System with the following characteristics:**
  - Thyristor rectifier, three phase fully controlled.
  - De-excitation capability.
  - Crow bar circuit.
  - PT failure throw over.
  - Over excitation limit
  - Volts per hertz limit.
  - Under reactive ampere limit
  - Under excitation limit
  - Temperature biasing.
  - Rotor overvoltage protection.
  - Field flashing circuit.
  - AC overvoltage protection.
  - Redundant auxiliary voltage supply (PPT, DC).
  - Digital Automatic Voltage Regulator (AVR) and sequencer.
  - Excitation Protection.
  - Thyristor bridge protection.
  - Digital inputs and outputs for remote interface
  - Analog outputs & Data logging.
  - Software tools to include system diagrams, signal flow, sequencing, and regulator control.
  - Operator HMI screen to access alarm history, trends, logic diagram, watch windows etc.
  - Cyber security standards NERC, CIP, NEI 08-09 and ISA99/IEC 62443
  - Life Cycle support on Excitation System such as System service agreement or multiyear agreements
  
- **Specification for Generator & Exciter**
  - Generator
    - Output – 50588KVA
    - RPM - 3000 RPM
    - Voltage – 11500 volts
    - Stator Current – 2539 Amps
    - Power Factor – 0.85 PF
  
  - Exciter
    - Type – Brushless
    - Field Voltage - 155 volts
    - Field Current – 935 Amps
    - Power Rating – 145KW

## **Axillary Control Systems for Integration with new Controls**

- **Generator protection**
  - Integrate or interface with existing GPP
  - Commissioning of integrated signals.
  
- **Ovation DCS Ver 3.5**
  - Connection of proposed system to DCS system using predefined tags
  - Modbus/TCP protocols
  - 1000 analog and digital signal points
  - Ovation process historian Version 3.5
  
- **Vibration Monitoring System (Bently Nevada 3500)**
  - Integrate or interface with existing Bently Nevada 3500 rack software version 5.7
  - Commissioning of integrated signals

Below list the systems used at the location: -

- System uses Ovation DCS version 3.5 and will be the main interface to local control points.
- Gas Turbines Local control uses Mark VIe Redundant PLC drive system with supporting interfaces.
- Ovation DCS is capable of using various industry standard communication protocol eg. Modbus TCP, GE GSM etc.
- System is equipped with an SOE on all critical points.
- Bently Nevada 3500 vibration monitors tied to Ovation DCS

**APPENDIX 3**

**Response Template**

Bid Validity: 90 days

Bidder: \_\_\_\_\_ Bid Date: \_\_\_\_\_

Currency: United States Dollars Payment Terms: Net \_\_\_\_ days of invoice date

Below must summarize the costs detailed in your submitted proposal

DESCRIPTION	DETAILS
Manpower Requirement (hours)	hours
Average cost per hour	\$
Total Manpower Cost	\$

DELIVERY COST	Summary Cost
Installation Equipment	\$
Consumables	\$
Accommodation	\$
Travel	\$
<b>Other Costs (bidder to list):</b>	\$
	\$
<b>TOTAL</b>	\$

Services	Frequency / Quantity	Unit Cost	Total
Training		\$	\$
User Acceptance Tests		\$	\$
<b>Other Costs (bidder to list):</b>		\$	\$
		\$	\$
		\$	\$

**Signed:** \_\_\_\_\_

**\*END OF DOCUMENT\***