



Request for Proposal

Hydro Data Storage & Gathering Solution

Contract No. PCPA-000224

Date: November 7, 2023

ADVERTISEMENT FOR BIDS

BID OPENING: 5:00 p.m. CENTRAL TIME, November 29th, 2023

The Grand River Dam Authority (“GRDA”) is requesting Bids proposals to **Hydro Data Storage & Gathering Solution**, all of which being performed and submitted in accordance with the terms of this Request for Proposal (“RFP”) for:

**Contract PCPA-000224
Hydro Data Storage & Gathering Solution**

Bids must be submitted electronically to stephanie.waits@grda.com. Bids received after the time set for the opening of the Bids will not be considered, absent a waiver by GRDA, at GRDA’s sole discretion, for good cause shown.

**Stephanie Waits, Procurement Specialist II
Grand River Dam Authority
9933 E. 16th St.
Tulsa, Oklahoma 74128**

Bids will not be publicly opened.

GRDA will accept questions regarding this RFP until November 17th, 2023 at 5:00 PM Central Time.

No site examination / pre-bid meeting for prospective Bidders will be held for this RFP.

Any applicable bonding requirement(s) will be addressed in the Contract between GRDA and the prevailing Bidder, (if any).

An electronic copy of this RFP may be found at: www.grda.com/bids/rfp/PCPA-000224

All Bidders have a duty to monitor the website for written addenda to the RFP. Addenda modify the RFP terms, and Bidders will be bound by the terms of the RFP as amended.

REQUEST FOR PROPOSAL, REQUIREMENTS FOR BIDDING AND INSTRUCTIONS TO BIDDERS

I. DEFINITIONS:

1. **“Bid”** means the formal proposal submitted by a Bidder in response to this RFP.
2. **“Bidding Documents”** includes the RFP, the Requirements for Bidding and Instructions to Bidders, the Bid forms, the Specifications, the Contract, and any Addenda issued prior to receipt of Bids.
3. **“Board of Directors”** means the rule-making authority and governing body of the GRDA as defined by 82 O.S. § 863.2.
4. **“Contract”** means the pro forma contract attached to this RFP. See ATTACHMENT M – special instructions.
5. **“GRDA”** means the Grand River Dam Authority, a governmental agency of the State of Oklahoma, as defined by 82 O.S. § 861, *et seq.*
6. **“Procurement Administrator”** means the GRDA employee with direct supervisory capacity of the Procurement Unit.
7. **“Procurement Unit”** means the unit or department within GRDA that is responsible for administering procurement policies and procedures.
8. **“Treasurer”** means the GRDA employee who is selected by the Board of Directors of the Grand River Dam Authority as authorized by 82 O.S. § 864.A(2) to oversee and manage all fiscal and procurement functions.
9. **“Vice President”** means that GRDA employee who has direct supervisory responsibility over the facility or land upon which the project will be completed.

II. SPECIFIC BID PROCEDURES AND REQUIREMENTS

1. Invitation to Submit Bids. GRDA invites sealed Bids, in accordance with the requirements of the RFP, and on the attached form titled “PROPOSAL to the Grand River Dam Authority for Contract PCPA-000224 ”.
2. Form of Bid Submission.
 - a. Bids must be submitted electronically to stephanie.waits@grda.com
3. Modification, Withdrawal, or Cancellation of Bids.
 - a. Bidders may withdraw, change, and resubmit their Bids electronically on the bid room website prior to the time designated for the opening of Bids.
 - b. A Bid may not be modified, withdrawn or canceled by the Bidder for sixty days after the time and date designated for the receipt of Bids.
4. Late Bids. Bids received after the time set for opening of Bids will not be considered absent a waiver by GRDA, at GRDA’s sole discretion, for good cause shown.

5. Bid Copies. The electronic copy of the Bid must be in .pdf format. Provided, if electronic Bids have been specifically authorized by this RFP, and Bidder submits the original Bid electronically, Bidder will not be required to provide GRDA a physical copy of the Bid.
6. Addenda and Interpretations for Bid
 - a. All clarifications, revisions, or changes to this RFP or any of the Bidding Documents (collectively, “Addenda”) will be posted to the website. All Bidders have a duty to monitor the website for Addenda. By submitting a Bid, Bidder represents that Bidder has reviewed the most recent version of the RFP, and agrees to comply with the RFP and all Addenda.
 - b. Questions regarding this RFP must be submitted in writing to Stephanie Waits at stephanie.waits@grda.com on or before 5:00 PM Central Time on November 17, 2023. No questions may be submitted orally.
 - c. GRDA may or may not respond to any such question. If GRDA responds, it will publish written Addenda to the website.
 - d. All Addenda shall become part of the Bidding Documents.
7. Site Inspection:

No site examination / pre-bid meeting for prospective Bidders will be held for this RFP.
8. Required Statements from Bidder to be Included in Bid. Each Bidder must accompany his Bid with a written statement under oath disclosing the following information:
 - a. The nature of any partnership, joint venture or other business relationships then in effect or which existed within one (1) year prior to the date of such statement with any architect, engineer or other party to the project;
 - b. Any such business relationship then in effect or which existed within one (1) year prior to the date of such statement between any officer or director of the Bidder company and any officer or director of any architectural or engineering firm or other party to the project; and
 - c. The names of all persons having any such business relationships and the positions they hold with their respective companies or firms. If no such business relationships exist, Bidder shall include a statement to that effect.
9. Bidder’s References Must be Included in Bid: The Bidder must be experienced and an expert in Data Storage & Gathering Solutions (scope and specifications provided as part of Attachment L – Exhibit H). The Bidder must include with its bid listing at least five (5) references where the Bidder has successfully provided services of a similar nature. The listed references must describe the type of services provided and the value of the project. GRDA may make such investigations as necessary to determine the ability of the Bidder to perform the work and the Bidder shall furnish to GRDA all such information and data for this purpose as GRDA may request. GRDA reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy GRDA that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.
10. Qualifications of Supervisory Personnel. Bidder shall include the resume(s) of supervisory personnel that may be assigned work at GRDA. The Bidder must demonstrate that trained and experienced supervisory personnel are available to support the project.
11. Safety. GRDA will consider the safety records of potential contractors prior to awarding bids on contracts. Any Bid submitted must include the following documents for Bidder and for all subcontractors Bidder will use:
 - a. The past five (5) years’ Occupational Safety and Health Administration (OSHA) 300 and OSHA 300A

logs.

- b. The past five (5) years' National Council on Compensation Insurance (NCCI) worker's compensation experience rating sheets.
12. Bid Detail Requirements: The Bid must provide sufficient details for GRDA to perform a complete Bid evaluation. The Bidder shall comply with all requirements in the specification.
 13. Equal Opportunity Employment Requirements. GRDA is an Equal Opportunity Employer. GRDA does not discriminate in its hiring practices and requires its contractors to abide by all federal law applicable to discrimination. All Bidders shall acknowledge in the Bidding Documents that they are Equal Employment Opportunity employers.
 14. Bidder's Representations. Each Bidder, by making a Bid, represents that:
 - a. The Bidder has read and understands the Bidding Documents and the Bid is made in accordance therewith;
 - b. The Bidder has had the opportunity to visit the site, if required, and is familiar with the local conditions under which the Work is to be performed and has correlated observations with the requirements of the proposed Contract documents; and
 - c. The Bid submitted is based upon the materials, systems and equipment required by the Bidding Documents without exception.
 15. Form of Rates. Bids must include the following information in the form prescribed by Attachment H, Rate Quotation Sheet:
 - a. a list of holidays that may be observed by Bidder and Bidder's contractors during the performance of the project;
 - b. a lump sum value that represents the total compensation the GRDA will provide to Bidder in exchange for Bidder's binding obligation to completely perform all of Bidder's duties arising under this RFP and the Contract.
 16. List of Documents to be Submitted with Bid: All Bids must contain complete and executed originals of the following documents, in the form included in this RFP, and in the following order:
 - ATTACHMENT A: COVER LETTER AND EXECUTIVE SUMMARY (identifying the project and contract number)
 - ATTACHMENT B: CONTRACTOR'S BID / PROPOSAL TO THE GRAND RIVER DAM AUTHORITY
 - ATTACHMENT C: LIST OF SUBCONTRACTORS
 - ATTACHMENT D: EXCEPTION STATEMENT
 - ATTACHMENT E: BIDDER'S PROPOSED CREW SCHEDULE
 - ATTACHMENT F: LISTING OF APPLICABLE EXPERIENCE
 - ATTACHMENT G: MINIMUM SAFETY REQUIREMENTS

- ATTACHMENT H: RATE QUOTATION SHEET
- ATTACHMENT I: NON-COLLUSION CERTIFICATE
- ATTACHMENT J: BUSINESS RELATIONSHIPS CERTIFICATE
- ATTACHMENT K: GRDA VISA PAYMENT PROGRAM
- ATTACHMENT L: EXECUTED NOTICE OF SPECIFICATIONS
- ATTACHMENT M: PRO-FORMA CONTRACT TO BE EXECUTED BY PREVAILING BIDDER(S).

III. BID OPENING AND PRELIMINARY REVIEW

1. Bid Receipt and Opening.
 - a. There will be no public bid opening.
2. Information to be Announced at Public Bid Opening.
 - a. There will be no public bid opening.
3. Preliminary Review. The Bids shall be initially reviewed for completeness and correctness. Any deficiency may be grounds for disqualifying the Bid. GRDA's review may include, but is not limited to, verifying that:
 - a. each of the Addenda are acknowledged;
 - b. each certificate is present and signed; and
 - c. each Bid Document is properly signed.
4. GRDA Rejection of Incomplete Bids. GRDA may reject any bid that GRDA considers to be incomplete, improper, or non-responsive, in GRDA's sole discretion. This may include, but is not limited to, Bids in which the Bidder submits another form of Contract in lieu of the attached Contract. Bids will become the property of GRDA upon submission. **Exceptions taken to the Contract terms and/or Bidding Documents may be cause for rejection of a Bid.**

IV. BID EVALUATION

1. Bid Evaluation by GRDA. After the preliminary review, the Bids will be reviewed and evaluated by designees from the GRDA Procurement Unit and the appropriate Vice President. The following items may be reviewed:
 - a. Unit Price Compliance. If the RFP requires Bidder to submit unit prices, Bidder's failure to submit unit prices for any requested work item may cause GRDA to reject the Bid.
 - b. Materially Unbalanced Prices. If Bid prices are materially unbalanced between line items or subline items, GRDA may reject the Bid. A Bid may be materially unbalanced if it is based on prices significantly less than the cost for some work and prices which are significantly overstated in relation to the cost for other work, and GRDA either has reasonable doubt that the Bid will result in the lowest overall cost to GRDA, or the prices are so unbalanced GRDA determines to the Bid is tantamount to allowing an advance payment.

- c. Technical and Commercial Qualifications. Bids may be evaluated based on technical and commercial criteria applicable to the scope of work specified. The evaluation criteria may include the Bid's:
 - i. Conformance to technical specifications;
 - ii. Evaluated price;
 - iii. Demonstration of project experience;
 - iv. Conformance to commercial terms; and
 - v. Overall value to GRDA.
 - d. Bidder's Performance Capability. GRDA may consider the Bidder's demonstrated ability to perform the required work. Any of the following may be grounds for disqualifying the Bidder.
 - i. More than one (1) Bid for the same work from an individual, firm, partnership, joint venture or corporation under the same or different names;
 - ii. Evidence of collusion among Bidders, subcontractors, or material suppliers;
 - iii. Lack of responsibility as shown by past work for GRDA judged from the standpoint of workmanship and progress;
 - iv. Uncompleted work under any Contract with GRDA or any other party;
 - v. Being in arrears on existing Contracts with the State of Oklahoma or GRDA, having defaulted or failed to comply with a previous State or GRDA Contract, or any other just and reasonable cause;
 - vi. Reasonable belief by GRDA that Bidder has engaged or is engaging in a discriminatory practice; or
 - vii. Any violation of the regulations of the Construction and Properties Department, in title 260, Chapter 65 of the Oklahoma Administrative Code, or other information indicating that the bidder is no longer responsible nor qualified to do business with the State; or any violation of GRDA or Oklahoma Office of Management Enterprises Services rules, or other information indicating that the Bidder is no longer responsible nor qualified to do business with the State.
2. Best Value Bid Comparisons. In comparing Bids, GRDA may consider not only the bid prices, but also other factors that impact whether a Bidder is the lowest responsible bidder or best value bidder, including, but not limited to the below listed criteria:
- Quick deployment of 12 weeks or less;
 - The preservation of the existing data;
 - The ability to gather accurate data manually;
 - And the vendors ability to build out report and visual aids is paramount
 - Vendor support after implementation could be required
- GRDA may, at GRDA's sole discretion, elect to enter into negotiations and allow for a best and final offer with one or more potential bidders on a best value award.

V. CONTRACT AWARD

1. Anticipated Contract Award. GRDA reserves the right to award multiple contracts, or no contracts, pursuant to this RFP. GRDA anticipates that, if a Contract is awarded pursuant to this RFP, the award will be made on or before: December 31, 2023.
2. Contract Award, Bonding, Insurance, and Execution. **BEST VALUE**
 - a. Contract Award. The Contract(s), if any, shall be awarded to the most responsive bidder to meet GRDA expectations and as determined in the sole discretion of GRDA.
 - b. Contract Insurance. The prevailing Bidder must provide proof of insurance and bonding with terms approved by GRDA, to the extent such items are required by the Contract.
 - c. Exceptions to Contract Limited to Exceptions Statement. **By submitting a Bid, all Bidders acknowledge and agree that all exceptions to the Contract must be specifically listed in the Exception Statement, and that: (i) any exceptions to the terms of the Contract in any other form are void and waived by Bidder; and (ii) Bidder will be deemed to have accepted the Contract as included in this RFP.**

VI. OTHER PROVISIONS

1. Bid Ambiguities and Discrepancies. If the total price of the Bid is inconsistent with the unit price times number of units to be delivered, the unit price shall govern. If there is a variance between the amount in words and the figures, the amount in words shall govern.
2. Tax Exempt Status: GRDA is exempt from the payment of any Sales or Use Taxes and, pursuant to 68 O.S. § 1350, *et seq.*, and § 1401, *et seq.*
3. Applicable Laws: By submitting a Bid, the Bidder acknowledges that all applicable Oklahoma State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project (in force and effect now, and as amended) shall apply to the Contract throughout, and they will be deemed to be included in the Contract. The laws of the State of Oklahoma shall apply to any dispute arising from or related to this Bid. The state district courts of the State of Oklahoma shall have exclusive jurisdiction and venue to adjudicate any such disputes.
4. Drug Free Workplace. GRDA seeks to provide a drug free workplace to all of its employees. All contractors working on a GRDA facility shall comply with GRDA's drug free workplace policies.
5. GRDA Reservation of Rights. GRDA reserves the right to reject any or all Bids, to waive any and all informalities, to evaluate Bids, to award or not award contracts, and to disregard all nonconforming, nonresponsive, and/or conditional Bids.

-End of Page -

ATTACHMENT A: COVER LETTER AND EXECUTIVE SUMMARY
Contract PCPA-000224

(attach cover letter and executive summary)

**ATTACHMENT B: PROPOSAL TO THE GRAND RIVER DAM AUTHORITY
FOR CONTRACT PCPA-000224**

MADE BY: _____

Business Address: _____

City _____ State _____ Zip Code _____

Telephone Number _____ Fax Number _____

E-Mail _____

The Bidder named above hereby tenders his Bid and declares that the only person or persons interested in this proposal is or are named above; that the Bid is made without collusion with any other Bidder and is in all respects without collusion or fraud. The Bidder further declares he has examined the specifications and all Bidding Documents, and has read the attached "REQUEST FOR PROPOSAL, REQUIREMENTS FOR BIDDING AND INSTRUCTIONS TO BIDDERS"; and agrees to furnish all the materials necessary or proper to carry out such contract in the manner, on the terms, and under the conditions set forth therein and in the specifications, **and to perform all work in accordance with the terms of the Bidding Documents, including the RFP and the Contract, all at Contractor's bid price.**

Lump Sum. The sum of all payments delivered by GRDA to Contractor for all Work performed pursuant to this Contract may not exceed \$_____ Dollars (\$_____) ("Contract Price"). Contractor must completely perform all work necessary to satisfactorily complete the Project, in accordance with each of the terms of this Contract, for the Contract Price. This rate shall include all direct and indirect costs (e.g. all travel related costs, insurance, profit, administrative overhead, etc.).

Note: If this Bid is made by an individual, it shall be signed with his/her usual business signature, with his/her business address and place of residence; if by a firm, the co-partnership name shall be signed by a member of the firm and the name and address of each member shall be given; if by a corporation, it shall be signed by a duly authorized officer, with the corporate name attested by the corporate seal, and the business address of the corporation shall be given.

Signed: _____

(Seal)

ATTACHMENT C: LIST OF SUBCONTRACTORS
Contract PCPA-000224

Should this proposal be accepted by GRDA, the following subcontractors will be used (Attach additional pages if required. If no work will be subcontracted, state "NONE").:

Subcontractor identification is for information only and award of Contract does not constitute approval of identified subcontractors nor relieve the Bidder of the responsibility for providing qualified subcontractors. If any other subcontractors are used, Contractor must obtain GRDA advanced approval in writing.

Work Subcontracted

Firm Name and Address

ATTACHMENT D: EXCEPTION STATEMENT
Contract PCPA-000224

This part of the proposal must be completed even if no exceptions are stated.

EXCEPTIONS (Attach additional pages if required. If no exceptions, state "NONE".)

ATTACHMENT E: BIDDER'S PROPOSED CREW SCHEDULE
Contract PCPA-000224

Crew Foreman (attach experience description): _____

Crew Size: _____

Equipment: _____

Planned Work Schedule: _____ Days/Week; _____ a.m. to _____ p.m.

ATTACHMENT F: LISTING OF APPLICABLE EXPERIENCE
Contract PCPA-000224

ATTACHMENT G: MINIMUM SAFETY REQUIREMENTS
Contract PCPA-000224

GRDA will consider the safety records of potential contractors prior to awarding bids on contracts. Any bid submitted must include the following documents for Bidder and for all subcontractors Bidder will use:

- The past five (5) years' Occupational Safety and Health Administration (OSHA) 300 and OSHA 300A logs.
- The past five (5) years' National Council on Compensation Insurance (NCCI) worker's compensation experience rating sheets.

Bidders are required to answer the following questions and submit supporting documentation upon request:

- | | | |
|--|------------------------------|-----------------------------|
| Does the Bidder have a written safety program? | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| Does the Bidder conduct regular site safety inspections? | <input type="checkbox"/> YES | <input type="checkbox"/> NO |
| Does the Bidder have an active safety training program? | <input type="checkbox"/> YES | <input type="checkbox"/> NO |

ATTACHMENT H: RATE QUOTATION SHEET
Contract PCPA-000224

[insert appropriate rate table based upon type of contract]

Bidder: _____

Date: _____

(Signature)

Title: _____

ATTACHMENT I: NON-COLLUSION CERTIFICATE
Contract PCPA-000224

A Non-Collusion Certificate shall be included with any competitive bid or contract submitted to the Authority for goods or services exceeding \$5,000.00 for this Request for Proposal or Request for Quote.

A. For purposes of competitive bid or contract, I certify under oath that:

1. I am the duly authorized agent of _____,
(Company Name)
the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and state officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to said bid;
2. I am fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and have been personally and directly involved in the proceedings leading to the submission of such bid; and
3. Neither the bidder, nor contractor, nor anyone subject to the bidder's or contractor's direction or control, has been a party:
 - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
 - b. to any collusion with any state official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
 - c. in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract, nor, whether competitively bid or not, has paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma any money or other thing of value, either directly or indirectly, in procuring this contract herein.

B. The contractor further certifies that no person who has been involved in any manner in the development of said contract while employed by the State of Oklahoma shall be employed to fulfill any of the services provided for under said contract.

C. If any contract pursuant to this bid is for professional services as defined in 74 O.S. § 85.2.25, and if the final product is a written proposal, report or study, the contractor further certifies that (s)he has not previously provided the state agency or any other state agency with a final product that is a substantial duplication of the final product of the proposed contract.

Authorized Signature

Certified this Date

Printed Name

Title

Telephone Number

Fax Number

E-Mail

ATTACHMENT K: GRDA EPAY OR ACH PROGRAM

Contract PCPA-000224

GRDA payment options are EPay or ACH

Preference may be given to vendors that accept EPay as method of payment if analysis estimates that such appears to result in a lower cost to GRDA. Additional payment terms may also be taken into consideration in the analysis process.

NOTE: This is not a credit card payment at time of sale (POS transaction). It is an electronic VISA payment after an invoice has been submitted and processed for payment. Payment terms on VISA payments are in accordance with those agreed upon on the solicitation and the resulting PO/Contract.

When a vendor elects to accept payment by EPay, the vendor will be assigned a 16-digit ghost account number (no physical plastic) which remains at a zero credit limit until an invoice is received from the vendor and processed by GRDA Accounts Payable. Once an invoice from a vendor has been processed for payment the vendor will receive a secure remittance advice via email providing the invoice information and full card account information authorizing the vendor to run the card and post the transaction at which time the account credit limit will return to zero until the next payment.

To learn more about the benefits of the Visa payment program, and to obtain answers to FAQ, click or copy and paste the following URL into your browser: www.bankofamerica.com/epayablesvendors.

Will accept payment by Visa: Yes ____ No ____ (check one)

Visa acceptance signature: _____

Designated Accounts Receivable Contact for Visa remittance advices:

Name: _____

Phone: _____

Email: _____

If a vendor elects to not accept EPay as the payment method, additional terms which provide discounts for earlier payment may be evaluated when making an award. Any such additional terms shall be for discounts for payment to be made no less than ten (10) days and may increase in five (5) day increments up to thirty (30) days. Discounts offered must be in half or whole percent increments. The date from which the discount time is calculated shall be the date of a valid invoice. An invoice is considered valid if it is sent to the proper recipient, the invoiced goods or services have been received, and the invoice includes sufficient detail as identified in the solicitation.

ATTACHMENT L: NOTICE OF SPECIFICATIONS
Contract PCPA-000224

The binding and mandatory Specifications applicable to this RFP are attached to the RFP as Exhibit H, and are hereby fully incorporated by reference.

By executing this form, Bidder acknowledges that Bidder has fully and completely examined the Specifications (a copy of which are included as Exhibit H to the Contract), and agrees that any work arising from or related to this Contract must be performed in full compliance with the Specifications.

Authorized Signature

Certified this Date

Printed Name

Title

EXHIBIT H

1 REQUIREMENTS

The Project must:

Access Database Requirements:

- GRDA has a requirement to transition the Hydro Data stored in an on-premises Microsoft Access database to our on-premises OSI PI system library.
- The database is approximately 100 MB, there are approximately 450 tags in the access database. We require the potential to grow to 1,000 tags, and potentially more.
- The bulk of the data goes back to 1995, GRDA requires the database be built back to 1965 to be able to enter historical data not in the Access Database
- Data / Tag Value is collected daily, weekly, monthly and when in extreme weather conditions hourly or less, the database will need to be built to accept this data inflow.
- Supplemental historic data made available in hard copy format may be provided for population into the database. Pricing for such data transfer will be on an optional basis and determined by GRDA for implementation at a later date. [need further description but want the scope available as a secondary item and not the determinant of the data entry – if they cost too much for this data transfer/re-creation we can do it internally]

Manual Logger:

- GRDA currently owns Manual Logger, but it is not installed or configured. Manual Logger will need:
 - Install and configure Manual Logger to suit GRDA's needs for data gathering.
 - Formulas entered with limits so erroneous reading cannot be taken.
 - Capability to enter data offline then upload the data when cellular or WIFI connectivity is established.

Asset Framework "AF"

- Instrumentation and Measuring Equipment: Embankment Piezometer, Observation Well, Weir, Gallery Drain, Rain Gauge, Relief Well, Alignment Monument, Headwater/Tailwater, Sump, Crack Gauge, Gallery Piezometer, Arch Piezometer, Pipe/Culvert, Pump, Foundation Piezometer, Flow Orifice, Parshall Flume, Strain Gauges, Gallery Crack Monitor, Gallery Joint Monitor, GPS Monitoring Monuments, Inclinometer, webpage data, and other data.

- Currently 390 of the 450 readings are gathered manually, a future goal is to automate as many assets as desirable. This requires the ability to automate data gathering in the future and the solution needs to be adaptive to this need.

Reporting and Visualization Requirements:

- GRDA will require reports and visualizations to be built for reporting purposes to FERC. These reports are typically provided annually but can require greater frequency depending on audits and other inquiries.
- GRDA requires the current excel spreadsheets be able to be recreated.
- GRDA requires the new database to be able to interface with Power BI.
- GRDA will require web-based dashboards to be created for analytics and forecasting.

Training and Support:

- GRDA will require training in data entry, manual logger, automation, and report creation / visualizations.
- GRDA will require support to maintain / modify the database, develop new reporting capabilities, and assist with automation / connection of assets.

2 CURRENT CIRCUMSTANCE/SITUATION

- Currently GRDA uses a Microsoft Access database to store all Hydro data collected via manual and automated methods. The data is manually collected, reordered on paper, and transferred to an excel spreadsheet then uploaded into the Access database. GRDA currently owns OSI Soft PI with the manual logger feature. GRDA requires a vendor to move the data from the current Access database to the OSI PI Historian setting up all tags and required fields. Manual Logger will need to be configured based off the excel spreadsheet templates currently used. Manual Logger will need to be able transfer the data to the OSI PI historian from the field and remote areas. The vendor will then need to assist the Hydro team with setting up analytics and reporting. The system will also need to be able to process data from external sources such as websites bring in lake levels, rainfall, and other data.

ATTACHMENT M: PRO FORMA CONTRACT
Contract PCPA-000224

Please provide a contract agreement with T&C's with your bid for GRDA review.