



Office of the Mayor-President
Purchasing Division
City of Baton Rouge
Parish of East Baton Rouge
222 St. Louis St. 8th Floor Room 826
P.O. Box 1471
Baton Rouge, Louisiana 70821
225-389-3259 FAX 225-389-4841
purchasinginfo@brgov.com

Phil Gore
Interim Director of Purchasing

ADDENDUM NO. 1
August 19, 2026

Your reference is directed to: File Number: 26-007227

Solicitation Number: RQ7227 - Pump Procurement Dry Pit Submersible Waster Pumps

Scheduled to open: September 10, 2026 at 11:00 am CST

The original solicitation will be replaced with the **attached** solicitation dated 8.19.26

Thanks for your consideration.

cc: Bid File **26-007227**

rterrell@brla.gov
225-389-3259 x 3263

Signature

Date

Company

INVITATION TO BID – SEALED BID							
SEALED BIDS will be received by the PURCHASING DIVISION of the CITY OF BATON ROUGE, EAST BATON ROUGE PARISH until 11:00 am CST, September 10, 2026							
TITLE: REQ7227 - PUMP PROCUMENT – DRY PIT SUBMERSIBLE WASTERWATER PUMPS				RETURN BID TO: PURCHASING DIVISION <u>Physical Address:</u> 222 St. Louis Street 8 th Floor Room 826 Baton Rouge, LA 70802 **NOTE: U.S. Postal Regular & Expedited Mail do not deliver to our physical address; delays			
FILE NO: 26-07227							
AD DATES: 08/21/26 & 08/28/26							
SHIP TO ADDRESS: Pump Station 57 1601 Staring Lane Baton Rouge, LA 70808				Contact Regarding Inquiries: Purchasing Analyst : Richard Terrell Telephone Number: 225-389-3259 x 3263 Email: rterrell@brla.gov			
VENDOR NAME				MAILING ADDRESS			
REMIT TO ADDRESS				CITY, STATE, ZIP			
TELEPHONE NO.				E-MAIL			
FEDERAL TAX ID OR SOCIAL SECURITY NUMBER				TITLE			
AUTHORIZED SIGNATURE (Required)				PRINTED NAME			
TO BE COMPLETED BY VENDOR: CONTRACTORS LICENSE IF APPLICABLE 1. _____ STATE DELIVERY DAYS MAXIMUM AFTER RECEIPT OF ORDER. 2. _____ % discount for payment made within 30 days. Discount for payment made in less than 30 days, or less than 1%, or applicable to an indefinite quantity contract will be accepted but not an award consideration.							
Bidders should acknowledge all addenda and the date received. The Bidder acknowledges receipt of the following issued ADDENDA							
No.	Date:	No.	Date:	No.	Date:	No.	Date:
No.	Date:	No.	Date:	No.	Date:	No.	Date:

F.O.B.: DESTINATION - PAYMENT TERMS: NET 30
ALL BLANKS ON THIS PAGE SHOULD BE COMPLETED TO AVOID REJECTION OF BID

The signature on this document certifies that proposer has carefully examined the instructions to bidders, terms and specifications applicable to, and made a part of this solicitation. By submission of this document, proposer further certifies that the prices shown are in full compliance with the conditions, terms and specifications of this solicitation. Bid must be signed in the designated space above and by person authorized to sign for bidder.

No alterations, changes or additions are allowed on this solicitation, and no additional information, clarifications or other documents are to be included unless specifically required by the specification. Any errors in extensions of prices will be resolved in favor of unit prices submitted.

If services are to be performed in East Baton Rouge City-Parish, evidence of a current occupational license and/or permit issued by the City-Parish shall be supplied by the successful vendor, if applicable.

INSTRUCTIONS TO BIDDERS / TERMS & CONDITIONS - SEALED BIDS

Bidders are urged to promptly review the requirements of this specification and submit questions for resolution as early as possible during the bid period. Questions or concerns must be submitted in writing to the purchasing division during the inquiry period. Otherwise, this will be construed as acceptance by the bidders that the intent of the specifications is clear and that competitive bids may be obtained as specified herein. Protests with regard to the specification documents will not be considered after bids are opened.

1. Read the entire bid, including all terms and conditions and specifications.
2. Bids are mailed only as a courtesy. The City-Parish does not assume responsibility for failure of bidders to receive bids. Bidders should rely only on advertisements in the local newspaper, and should personally pick up bids and specifications. Full information may be obtained, or any questions answered, by contacting the Purchasing Division, 222 Saint Louis Street, 8th Floor, Room 826, Baton Rouge, LA 70802 or by calling (225) 389-3259. The City-Parish will not accept fax proposals or proposals sent via e-mail.
3. Only one bid will be accepted from each bidder for the same job. Alternates will not be accepted unless specifically requested in the proposal. Submission of more than one bid or alternates not requested may be grounds for rejection of all bids by the bidder.
4. **The method of delivery of bids is the responsibility of the bidder. All bids must be received by the Purchasing Division on or before the specified bid opening date and time. Late bids will not be considered under any circumstances. NO FAXED OR EMAIL BIDS WILL BE ACCEPTED.**
5. Failure to deliver within the time specified in the bid will constitute a default and may cause cancellation of the contract. Where the city has determined the contractor to be in default, the city reserves right to purchase any or all products or services covered by the contract on the open market and to charge the contractor with cost in excess of the contract price. Until such assessed charges have been paid, no subsequent bid from the defaulting contractor will be considered.
6. The City-Parish specifically reserves the right to evaluate bids and award items separately, grouped or on an all or none basis, to accept the bid which is in the best interest of the City-Parish, and to reject all proposals if that is in the best interest of the City-Parish.
7. Bid forms and submissions must be downloaded and submitted through the www.centralbidding.com on-line bidding site. Bids shall be accepted only on proposal forms furnished by the City of Baton Rouge and Parish of East Baton Rouge Purchasing Division. The City-Parish will only accept bids from those bidders in whose names the proposal forms and/or specifications were issued. Altered or incomplete proposals, or the use of substitute forms or documents, shall render the bid non-responsive and subject to rejection. The entire proposal package, including the specifications and copies of any addenda issued shall be submitted to the Purchasing Division as the bid.
8. All bids must be typed or written in ink. Any erasures, strikeover and/or changes to prices should be initialed by the bidder. Failure to initial may be cause for rejection of the bid as non-responsive.
9. All bids must be manually signed by a properly authorized party. Failure to do so shall cause the bid to be rejected as non-responsive.
10. Where one or more vendor's exact products or typical workmanship is designated as the level of quality desired or equivalent, the Purchasing Division reserves the right to determine the acceptability of any equivalent offered. If bidding other than specified, sufficient information should be enclosed with the bid in order to determine quality, suitability, and compliance with the specifications. Failure to comply with this request may eliminate your bid from consideration. If requested, literature and/or specifications must be submitted within seven (7) days.
11. Detailed factory specifications, illustrative literature and any deviations should be submitted with bid as required by the specifications or on the bid form. Representative samples shall be submitted upon request, if appropriate. Bidders proposing an equivalent brand or model should submit with the bid information (such as illustrations, descriptive literature, and technical data) sufficient for the City to evaluate quality, suitability, and compliance with the specifications in the solicitation.

12. Written addenda issued prior to bid opening which modifies the bid shall become a part of the bid, and shall be incorporated within the purchase order and/or contract. Only a written interpretation or correction by Addendum shall be binding. Bidders shall not rely upon any interpretation or correction given by any other method. Failure to acknowledge receipt of addenda (if any) shall render the bid non-responsive and subject to rejection.
13. For Printing solicitations, artwork, dies and/or molds shall become the property of the City-Parish Government and must be returned to the Purchasing Division, 222 Saint Louis Street, 8th Floor, Room 826, Baton Rouge, LA 70802, upon completion of the order.
14. All applicable chemicals, herbicides, pesticides and hazardous materials must be registered for sale in Louisiana by the Department of Agriculture, State of Louisiana, registered with the EPA and must meet all requirements of Louisiana State Laws. Bidders should submit product label, material safety data sheet and EPA registry number with bid or within five (5) days of request from purchasing office. This information will be required on any subsequent deliveries if there is a change in chemical content or a different product is being supplied. Failure to submit this data may be cause for the bid to be rejected or the contract canceled.
15. Delivery of items must be made on time to City - Parish final destinations within East Baton Rouge Parish. All freight charges shall be prepaid by vendor. EAST BATON ROUGE PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission. Late deliveries or unsatisfactory performance may be cause to cancel the Purchase Order or contract.
16. EAST BATON ROUGE PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.
17. The State of Louisiana Code of Governmental Ethics places restrictions on awarding contracts or purchase orders to persons who are employed by any agency of the City - Parish Government, or any business of which he or his spouse has more than a twenty-five percent (25%) interest. The Code also prescribes other restrictions against conflict of interest and establishes guidelines to assure that appropriate ethical standards are followed. If any question exists regarding potential violation of the Code of Ethics, bidders should contact the Purchasing Division prior to submission of the bid. Any violation of the Code of Ethics shall be grounds for disqualification of bid or cancellation of contract.
18. The City-Parish reserves the right to award items separately, grouped or on an all-or-none basis and to reject any or all bids and waive any informalities.
19. Quantities, if shown, are estimated only. Smaller or larger quantities may be purchased based upon the needs of the City-Parish. There is no guaranteed minimum quantity.
20. All Prices bid shall remain in effect for a period of at least sixty (60) days. City-Parish purchases are excluded from state and local taxes.
21. Acceptance of award by vendor, either in writing or by shipment of any article described herein, shall effectuate a contract between City - Parish and vendor for the materials described herein, and no additional conditions or amendments shall have any effect unless approved in writing by City-Parish.
22. The City-Parish is an equal opportunity employer, and does not discriminate against anyone on the basis of race, sex, creed, color, religion, national origin, ancestry, reprisal, disability, sexual orientation, marital status or political affiliation.

23. In accordance with Louisiana Revised Statutes, a preference may be allowed for equivalent products produced, manufactured or grown in Louisiana and/or firms doing business in the State of Louisiana. Do you claim this preference if allowed? YES ____ NO _____. If this preference is claimed, attach substantiating information to the proposal to show the basis for the claim.
24. **Right To Audit Clause:** The Contractor shall permit the authorized representative of the City-Parish to periodically inspect and audit all data and records of the Contractor relating to his performance under this contract.
25. **Terms and Conditions:** This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, vendor agrees that contrary terms and conditions which may be included in their bid are nullified; and agrees that this contract shall be construed in accordance with this solicitation and governed by the laws of the State of Louisiana as required by Louisiana Law.
26. In accordance with the provisions of LA. R.S. 38:2212.9, in awarding contracts after August 15, 2010, any public entity is authorized to reject the lowest bid from, or not award the contract to, a business in which any individual with an ownership interest of five percent or more has been convicted of, or has entered a plea of guilty or ***Nolo Contendere*** to any state felony crime or equivalent federal felony crime committed in the solicitation or execution of a contract or bid awarded under the laws governing public contracts under the provisions of Chapter 10 of this Title, professional, personal, consulting, and social services procurement under the provisions of Chapter 16 of Title 39 of the Louisiana Revised Statutes of 1950, or the Louisiana Procurement Code under the provisions of Chapter 17 of Title 39 of the Louisiana Revised Statutes of 1950.
27. Certification of no suspension or debarment. By signing and submitting any bid for \$25,000 or more, the bidder certifies that their company, any subcontractors, or principals are not suspended or debarred by the general services administration (GSA) in "Audit Requirements In subpart F of the Office of Management and Budget's uniform administrative requirements, cost principles, and audit requirements for federal awards" (Formerly OMB circular a-133).
- a. A list of parties who have been suspended or debarred can be viewed via the internet at <http://www.sam.gov>.
 - b. A contract award must not be made to parties listed on the government wide exclusions in the System for Award Management, (SAM), in accordance with OMB guidelines at 2 C.F.R. 180. SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.
28. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Bids containing "Payment in Advance" or "C.O.D. requirements may be rejected. Payment is to be made within 30 days after receipt of properly executed invoice or delivery, whichever is later.
29. East Baton Rouge Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by East Baton Rouge Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and local taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.
30. Bidders may attend the bid opening, but no information or opinions concerning the ultimate contract award will be given at the bid opening or during the evaluation process. Bid tabulations may be accessed at: <http://city.brla.gov/dept/purchase/bidresults.asp>.
31. Contractor agrees, upon receipt of written notice of a claim of a claim or action, to defend the claim or action, or take other appropriate measure, to indemnify, and hold harmless, the city, its agents and employees from and against all claims and actions for bodily injury, death or property damages caused by fault of the contractor, its officers, its agents, or its employees. Contractor is obligated to indemnify only to the extent of the fault of the contractor, its officers, its agents, or its employees, however the contractor shall have no obligation as set forth with respect to any claim or action from bodily injury, death or property damages arising out of the fault of the City, its officers, its agents, or its employees.

32. In accordance with Louisiana Law (R.S. 12:262.1 and 12:1308.2), all corporations and limited liability companies must be in good standing with the Louisiana Secretary of State at the time of execution of the contract.
33. Vendors submitting signed bids agree to EEOC compliance and certify that they agree to adhere to the mandates dictated by Title VI and VII of the Civil Right Act of 1964, as amended by the Equal Opportunity Act of 1972, Federal Executive Order 11246, the Federal Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Act of 1975, and agrees to abide by the requirements of the Americans with Disabilities Act of 1990.
34. Bidders must agree to keep informed of and comply with all federal, state and local laws, ordinances and regulations which affect their employees or prospective employees.
35. **All departments and agencies of the City of Baton Rouge, Parish of East Baton Rouge utilize an Enterprise Resource Planning (ERP) system, Vendor Self Service (VSS) via the Tyler Technologies Munis system.**

Vendor Self-Service (VSS) enables vendors to register and maintain information about their organization for the purpose of doing business with City-Parish and receive notifications of business opportunities. The City-Parish procurement activities are subject to the State of Louisiana Public Bid Law, local city-parish ordinances as well as applicable federal statutes as directed by grant providers. Vendors must be registered to receive bid notifications.

New vendors or existing vendors who need to create a VSS account can do so clicking the Registration link at <http://brla.gov/vss>. Vendors are encouraged to review the step by step <https://www.brla.gov/DocumentCenter/View/4899/Vendor-Self-Service-Registration-Guide-PDF> before beginning the registration process which may be assessed at <https://www.brla.gov/DocumentCenter/View/4899/Vendor-Self-Service-Registration-Guide-PDF>.

Additional information regarding how to do business with EBR City-Parish is available at: <https://www.brla.gov/DocumentCenter/View/678>.

We also post our scheduled bid openings, as well as unofficial bid tabulations after the bids have opened at <http://city.brla.gov/dept/purchase/bids.asp>.

Note: Commodity codes are required for setting up your profile. These numbers tell us what commodities and services that you can provide. When agencies request products or services, our buyers pull directly from these numbers to send out solicitations, bids, and quotes. The first 3 numbers are the class numbers; the subclasses are two digit numbers that better describe the commodity or service. For questions regarding commodity codes, please contact purchasing at (225) 389-3259 Ext 0.

Important! - A W-9 Form is required in order to do business with City-Parish. Part of the online enrollment process requires you to upload a completed W-9 form. Please have the completed form in an electronic format so that you can submit it as part of the registration process. The W-9 form can be downloaded from the IRS website. We have created step by step directions on how to properly complete the W-9 Form.

MBE/SBE/WBE Initiative
Participation by Certified Small Entrepreneurships/DBE Initiative

This procurement has been designated as suitable for certified small entrepreneurships (MBE/SBE/WBE) participation.

The City of Baton Rouge, Parish of East Baton Rouge strongly encourages the participation of Small and Minority and Women-owned business in all contracts or procurements let by the City of Baton Rouge Consolidated Government for goods and services and labor and material. To that end, all Service Providers and suppliers are encouraged to utilize federal, state or locally certified Small, Minority and Women-owned businesses in the purchase or sub-contracting of materials, supplies, services and labor and material in which disadvantaged businesses are available.

Proposers that are not eligible for certification are encouraged to use Small, Minority and Women-owned businesses where sub-contracting opportunities exist. To be responsive to this request for proposal, the proposer should be a Small, Minority or Women-owned businesses or have put forth a good faith effort to use certified Small, Minority or Women-owned businesses as subcontractors. By submitting and signing a proposal, the proposer certifies that they are in compliance with this requirement. The proposer shall submit with the proposal a plan and selection process outlining good-faith efforts to utilize Small, Minority or Women-owned businesses as subcontractors.

Written notification is the preferred method to inform Small, Minority and Women-owned businesses of potential subcontracting opportunities. A current list of certified Small, Minority and Women-owned businesses may be obtained from the Louisiana Economic Development Certification System at <https://smallbiz.louisianaeconomicdevelopment.com/certifiedbusiness/default.aspx>. Additionally, a current list of Small, Minority and Women-owned businesses, which have been certified by the Louisiana Department of Economic Development and have opted to enroll in the State of Louisiana Procurement and Contract (LaPAC) Network, may be accessed from <http://www.prd1.doa.louisiana.gov/OSP/LaPAC/Vendor/srchven2.cfm>. You may then determine the search criteria (i.e. alphabetized list of all certified vendors, by commodities, etc.), and select "Smaller". Additional assistance may also be obtained from the Small Business Administration and the Minority Business Development Agency of the Department of Commerce to solicit and use these firms at <http://www.mbda.gov/contact>.

Copies of notification to certified Small, Minority and Women-owned businesses will satisfy the notification requirements. Notification must be provided to the certified entrepreneurships by the proposer in writing no less than five working days prior to the date of proposal deadline.

Notification must include the scope of work, location to review plans and specifications (if applicable), information about required qualifications and specifications, any bonding and insurance information and/or requirements (if applicable), and the name of a person to contact.

In the event questions arise after an award is made relative to the proposer's good faith efforts, the proposer will be required to provide supporting documentation to demonstrate its good faith subcontracting plan was actually followed. If it is at any time determined that the Service Provider did not in fact perform its good faith subcontracting plan, the contract award or the existing contract may be terminated.

INQUIRY PERIOD

Inquiry Period:

An inquiry period is hereby firmly set for all interested bidders to perform a detailed review of the bid documents and to submit any written questions relative thereto. ***Without exception, all questions MUST be in writing*** (even if an answer has already been given to an oral question during the pre-bid conference or job site visits.) Inquiries are to be directed as follows:

Hand Delivered or by Courier

Richard Terrell, Senior Purchasing Analyst
City-Parish Purchasing Department
222 Street Louis Street, Room 826
Baton Rouge, LA 70802

By email: rterrell@brla.gov

The City-Parish shall not and cannot permit an open-ended inquiry period, as this creates an unwarranted delay in the procurement cycle and operations of our departments. The City-Parish reasonably expects and requires *responsible and interested* proposers to conduct their in-depth proposal review and submit inquiries in a timely manner.

All inquiries shall be received by 5:00 p.m. CST on August 27, 2026.

TELECONFERENCE

The City of Baton Rouge and Parish of East Baton Rouge, Purchasing Division, is offering teleconference and in-person attendance by vendors at public bid openings for bids published by our office.

Any vendor who would like to listen to the opening of this bid can access the following link, at the date and time of this bid opening:

Join by phone

+1-408-418-9388 United States Toll

Access code: 263 373 080 (followed by the # button)

Alternate numbers to call if number above is not available, which may occur due to network traffic (use the same Access Code, followed by the # button):

United States Toll (Boston) +1-617-315-0704

United States Toll (Chicago) +1-312-535-8110

United States Toll (Dallas) +1-469-210-7159

United States Toll (Denver) +1-720-650-7664

United States Toll (Jacksonville) +1-904-900-2303

United States Toll (Los Angeles) +1-213-306-3065

This link will provide you with live audio access to this bid opening. The link will be live at the noted bid opening time and date.

NOTE: The only vendor information shared at the bid opening will be the reading of the names of those vendors who submitted bids.

SCHEDULE OF BID ITEMS

It is the intent of this proposal to establish prices for the purchase and delivery of the following items as requested by The Environmental Services Department – Sewer Administration, as specified. Delivery shall be made to location as specified herein.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT OF MEASURE	LUMP SUM PRICE
0001	FIVE DRY PIT SUBMERSIBLE WASTERWATER PUMPS (FLYGT NT 3356 or SULZER XFP 351M-CH3) or APPROVED EQUAL - PER SPECIFICATIONS Specify Manufacturer / Product Bid _____	1	LUMP	\$ _____

DEVIATIONS
(If Applicable)

The brands used in this specification are to denote the type, character and quality standard requested. If bidding other than specified, please note the brand that you are bidding in the designated spaces provided below. Sufficient information should be enclosed with the bid in order to determine quality, suitability, compatibility and compliance with the specifications.

ITEM NO. 0001	DRY PIT SUBMERSIBLE WASTERWATER PUMPS (FLYGT NT 3356 OR SULZER XFP 351M-CH3) OR APPROVED EQUAL - PER SPECIFICATIONS
Specify Manufacturer/Product Bid: 	

BIDDER'S ORGANIZATION

BIDDER IS:

AN INDIVIDUAL

Individual's Name: _____

Doing business as: _____

Address: _____

Telephone No.: _____

A PARTNERSHIP

Firm Name: _____

Address: _____

Name of person authorized to sign: _____

Title: _____

Telephone No.: _____

A LIMITED LIABILITY COMPANY

Company Name: _____

Address: _____

Name of person authorized to sign: _____

Title: _____

Telephone No.: _____

A CORPORATION

IF BID IS BY A CORPORATION, THE CORPORATE RESOLUTION SHOULD BE SUBMITTED WITH BID

Corporation Name: _____

Address: _____

State of Incorporation: _____

Name of person authorized to sign: _____

Title: _____

Telephone No.: _____

IF BID IS BY A JOINT VENTURE, ALL PARTIES TO THE BID SHOULD COMPLETE THIS FORM

CORPORATE RESOLUTION

A meeting of the Board of Directors of _____ a _____ corporation organized under the laws of the State of _____ and domiciled in _____ was held this _____ day of _____, 20____ and was attended by a quorum of the members of the Board of Directors.

The following resolution was offered, duly seconded and after discussion was unanimously adopted by said quorum:

BE IT RESOLVED, that _____ is hereby authorized to submit proposals and execute agreements on behalf of this corporation with the City of Baton Rouge, and Parish of East Baton Rouge.

BE IT FURTHER RESOLVED, that said authorization and appointment shall remain in full force and effect, unless revoked by resolution of this Board of Directors and that said revocation will not take effect until the Purchasing Director of the Parish of East Baton Rouge, shall have been furnished a copy of said resolution, duly certified.

I, _____, hereby certify that I am the Secretary of _____ a corporation created under the laws of the State of _____ domiciled in _____; that the foregoing is a true and exact copy of a resolution adopted by a quorum of the Board of Directors of said corporation at a meeting legally called and held on the _____ day of _____, 20____, as said resolution appears of record in the Official Minutes of the Board of Directors in my possession.

This _____ day of _____, 20____.

SECRETARY

CONTRACTOR'S AND SUB CONTRACTOR'S INSURANCE

Contractor and any subcontractor shall carry and maintain at least the minimum insurance as specified below until completion and acceptance of the work. Contractor shall not commence work under this contract until certificates of insurance have been approved by the City-Parish Purchasing Division. Insurance companies listed on certificates must have industry rating of A, Class VI or higher, according to Best's Key Rating Guide. Contractor is responsible for assuring that its subcontractors meet these insurance requirements.

A. General Liability Insurance

General Liability insurance, endorsed to provide coverage for explosion, collapse and underground damage hazards to property of others; Contractual Liability, Products and Completed Operations (for a minimum of two year after acceptance of the Work), **Additional Insured and Waiver of Subrogation in favor of Contractor and Owner.**

	Limits
General Aggregate	\$2,000,000
Products/Completed Operations	\$1,000,000
Personal and Advertising Injury	\$1,000,000
Per Occurrence	\$1,000,000
Damage to Premises Rented to You	\$100,000
Medical Payments	\$5,000

B. Automobile Liability Insurance

Automobile Liability insurance which shall include coverage for all owned, non-owned and hired and shall be endorsed to include a Waiver of Subrogation and Additional Insured in favor of Contractor and Owner.

Bodily Injury and Property Damage \$1,000,000 Combined Single Limit Each Occurrence (Minimum)

C. Worker Compensation and Employers Liability Insurance

Subcontractor agrees to comply with Workers Compensation laws of the state where the Work is performed, and to maintain a Workers Compensation and Employers Liability policy. **The policy shall include a Waiver of Subrogation endorsement in favor of the Contractor and Owner. Full statutory liability for State of Louisiana with Employer's Liability Coverage.**

Workers Compensation	Statutory
Employer's Liability	\$1,000,000 Each Accident (Minimum)
	\$1,000,000 Disease Each Employee

D. Excess Umbrella Liability Coverage

Excess/Umbrella Liability insurance shall be follow form the primary coverages and shall be endorsed to include a Waiver of Subrogation and Additional Insured in favor of Contractor and Owner.

Bodily Injury and
Property Damage \$1,000,000 Combined Single Limit Each Occurrence (Minimum)

E. The City of Baton Rouge and Parish of East Baton Rouge must be named as additional insured on all general liability policies described above.

F. Waiver of subrogation in favor of City of Baton Rouge and Parish of East Baton Rouge, is required from Workers Compensation Insurer.

G. Certificates must provide for thirty (30) days written notice to Certificate Holder prior to cancellation or change.

H. The Certificate Holder should be shown as:

**City of Baton Rouge and Parish of East Baton Rouge
Attn: Purchasing Division
222 St. Louis Street
8th Floor Room 826
Baton Rouge, LA 70802**

FAIR CHANCE ORDINANCE

Requires Fair Chance hiring standards for person, corporations, and entities in a contract, cooperative endeavor agreement, or grant with the City of Baton Rouge, Parish of East Baton Rouge by limiting the consideration of criminal history of an applicant, and to provide otherwise with respect hereto.

Section 1

A contractor shall not request from the applicant their criminal history before the contractor extends a conditional offer of employment.

Section 2

All contracts shall include a certification that the contractor has complied with the provisions of the fair chance ordinance.

Section 3

The applicant will acknowledge in writing that a background check will be performed before a final offer of employment.

Section 4

Section 1 does not apply if consideration of an applicant's criminal history is required by law.

Section 5

The Purchasing department is the enforcing agency and shall establish a procedure for complaint.

Section 6

The Fair Chance ordinance shall not apply to the following City Parish departments: Human Resources, Police, Constable, Fire Department, Emergency Medical Services, Juvenile Services, and Metro Airport.

Section 7

The ordinance shall be effective May 5, 2023 following adoption and shall apply to contracts executed on or after the effective date EXCLUDING renewals to contracts awarded in response to an Request for Proposal (RFP), a Request for Qualifications (RFQ) or awarded by the Engineers or Architectural Selection Boards. The ordinance shall not apply to any agreements executed before the effective date of this ordinance.

The signature below certifies that the signer has carefully examined the above and is in full compliance with the terms listed.

Date

Authorized Signature

Authorized Name (Printed)

**TECHNICAL SPECIFICATIONS
26-007227 PUMP PROCUREMENT
SECTION 22 13 29 – DRY-PIT SUBMERSIBLE WASTEWATER PUMPS**

PART 1 – GENERAL

1.01 SCOPE

- A. Pump Station 57, located at 1601 Staring Lane, will be upgraded to convert the drive shaft type pumps with dry-pit submersibles. It is the intent of the East Baton Rouge Sewerage Commission (Owner) to furnish five dry-pit submersible pumps and associated appurtenances for this project to expedite the schedule. Equipment to be provided in addition to the pumps are inlet elbows, control modules and spare parts as specified herein.
- B. All units supplied shall be of the highest standard available for this type of service including field testing of the entire installation and instructing the regular operating personnel in the care, operation, and maintenance of equipment.

1.02 SUBMITTALS: Submittals shall include one electronic copy of at least the following:

- A. Certified shop and erection drawings showing details of construction, dimensions and anchor bolt locations.
- B. Materials of construction list for machinery and structural components.
- C. Descriptive literature, bulletins, and/or catalogs of the equipment.
- D. Pump supplier shall provide 48 hours' notice to Owner in advance of pump station component delivery.
- E. Data on the characteristics and performance of each size pump. Data shall include guaranteed performance curves, based on actual shop tests of duplicate units, which show they meet specified requirements for head, capacity, efficiency, and horsepower. Factory certified curves should be submitted on 8-1/2-inch by 11-inch paper. Curves shall be plotted from zero flow at shut off head to pump capacity at minimum specified total dynamic head.
- F. Total weight of equipment including weight of the single largest item.
- G. A bill of materials for all equipment.
- H. A list of the spare parts, at a minimum as specified in Article Tools and Spare Parts, with manufacturer's current price for each item; include gaskets, packing, etc. List bearings by bearing manufacturer's number only.
- I. Certified agreement to conditions of the warranty.
- J. Motor data.
- K. 2 hard and 1 digital copy of Operation and Maintenance Manuals as specified herein.
- L. Written report confirming the results of the start-up and testing activities specified herein.
- M. Certificates of Proper Installation for equipment as specified under Article Installation.

- N. In the event that it is impossible to conform to certain details of the Specifications because of different manufacturing techniques, describe completely nonconforming aspects.

1.03 QUALITY ASSURANCE

A. Manufacturing and Installation

1. All dry-pit submersible pumps furnished shall be manufactured from a sole manufacturer and shall be manufactured in accordance with Hydraulic Institute Standards.
2. All dry-pit submersible pumps shall be designed and constructed in accordance with best practice and methods and shall operate satisfactorily when installed.

B. Qualifications

1. All dry-pit submersible pumps to be furnished shall be from a proven manufacturer having a successful record of manufacturing and servicing similar submersible pumps and equipment and systems specified herein for a minimum of five (5) years in the United States of America.
2. Pump manufacturer shall have, within a 250-mile radius of Baton Rouge, an authorized warranty center fully staffed with factory trained mechanics and equipped with a stock of necessary parts for each model of submersible pumping unit to be furnished.
3. Equipment furnished shall be new and unused.
4. Pumping units provided shall be of highest standard available for this type of service including field testing of entire installation and instructing regular operating personnel in care, operation and maintenance of equipment.

1.04 DELIVERY, STORAGE AND HANDLING

A. Provide 48-hour notice to Owner in advance of pump station component delivery.

B. Product Handling

1. Parts shall be properly protected so no damage or deterioration will occur during a prolonged delay from time of shipment until installation is completed and the units and equipment are ready for operation.
2. Equipment and parts shall be properly protected against damage during storage at site.
3. Factory assembled parts and components shall not be dismantled for shipment unless permission is received in writing from Engineer.
4. Finished surfaces of exposed pump openings shall be protected by wooden blanks, strongly built and securely bolted thereto.
5. Finished iron or steel surfaces not painted shall be properly protected to prevent rust and corrosion.

6. After hydrostatic or other tests have been completed, entrapped water shall be drained prior to shipment and proper care shall be taken to protect parts from the entrance of water during shipment, storage and handling.
7. Each box or package shall be properly marked to show its net weight in addition to its contents.
8. All pumps and appurtenances shall be shipped to an agreed upon location within East Baton Rouge Parish for installation in a future contract. Unloading of the pumps will be the responsibility of the Owner.

1.05 WARRANTY

- A. Pump supplier shall warrant pumping equipment for each time period or duration of actual operational running time whichever occurs first, participating in the cost of repair or replacement, in accordance with the following schedule.

Warranty Period	Time After Shipment of Pumping Equipment (months)	Time of Actual Pump Operation (Hours)	Manufacturer's Share of Cost of Repair or Replacement (percent)
1	0-24	0-3000	100
2	25-45	3000.1-6500.0	50
3	46-66	6500.1-10,000.0	25

Warranty shall cover defects in workmanship and material and cover all costs for both labor and parts required to inspect and repair pumping equipment delivered to pump manufacturer's authorized repair and maintenance service center. Owner shall be responsible for removing and reinstalling pumping equipment in dry well and pump manufacturer shall be responsible for removal and reinstallation of pump power and control cables and transportation or shipping costs for delivery of pumping equipment to service center and return to site during first warranty period. If warranty service is required after first warranty period, Owner shall be responsible for transportation or shipping costs for delivery of pumping equipment to service center and return to site within a 250 mile radius as specified in this section. Pump manufacturer shall be responsible for transportation or shipping costs for delivery of pumping equipment to a service center, outside of the specified 250 mile radius, and return to Owner, in the event that conditions occur that no authorized service center is located within required area at time warranty service is required after first warranty period.

In addition to the manufacturer's warranty as stated above, the pump supplier shall provide a one year clog free guarantee. If the pump clogs with typical solids and/or debris normally found in domestic wastewater during this period (within 12 months of final acceptance by the Owner), the manufacturer or the pump supplier will reimburse the Owner for reasonable cost to remove the pump, clear the obstruction and reinstall the affected pump, or the pump supplier will provide a service technician to perform this work at no cost to the Owner.

- B. Agreement to Warranty Conditions: Pump supplier shall, as a part of the required Shop Drawing and product submittal data, deliver a certified statement of agreement to the above listed conditions of warranty for equipment and materials to be supplied and installed under this Specification. If this agreement is not submitted, equipment shall not be approved. A typewritten or printed copy of product warranty, including the above provisions and applicable dates of commencement and expiration of each warranty period shall be supplied with other required product data.

1.06 TOOLS AND SPARE PARTS

- A. The pump supplier shall furnish a complete set of recommended spare parts necessary for the first five (5) years of operation, which shall include at least the following:
 - 1. One impeller
 - 2. One set of seals and bearings
- B. Loose spare parts shall be properly bound and labeled for easy identifications without opening the packaging and suitably protected for long storage.

PART 2 – PRODUCTS

2.01 GENERAL REQUIREMENTS

- A. The pump supplier shall provide five explosion proof dry-pit submersible non-clog wastewater pumps as specified herein. All equipment is intended to be standard for pumping all material in normal domestic wastewater.
- B. The pumps covered by these Specifications are intended to be standard pumping equipment of proven ability as manufactured by a manufacturer having a minimum of five (5) years experience in the production of such pumps. The pump supplier shall confirm the pumps were installed in accordance with the manufacturers' installation instructions and provide a manufacturer's representative for start-up. The pumps furnished shall be designed and constructed in accordance with the best practice and methods, and shall operate satisfactorily when installed. Pumps shall be manufactured in accordance with the Hydraulic Institute Standards.
- C. Equipment furnished under this Specification shall be new and unused, shall be standard product of manufacturers having a successful record of manufacturing and servicing the equipment and systems specified herein for a minimum of five (5) years. Pump manufacturer shall have, within a 250-mile radius of the Baton Rouge city limits, an authorized warranty center fully staffed with factory trained mechanics, and equipped with a stock of necessary spare parts for each model of pump specified.
- D. The pumps shall meet the specified operating data as specified herein by $\pm 5\%$. A manufacturer's listing on the Qualified Products List (QPL) does not waive the requirement to meet the design conditions.

2.02 SYSTEM DESCRIPTION

- A. Existing Pump Station 57 Upgrade: four duty pumps and one standby pump (five total)
- B. Design Capacities:
 - 1. Dry Weather: 6,800 gpm (one pump at reduced speed)
 - 2. Wet Weather: 25,300 gpm (four pumps at 60 Hz)

C. Design Pump Curve for Wet Weather Capacity:

Flow (gpm)	Shutoff	6,325	9,450
Head (ft)	97	57	27

D. Minimum Pump Efficiency at Design Wet Weather Capacity: 85%

E. NPSH Available at 6,325 gpm: 33.7 feet

F. Maximum Pump Speed at Design Wet Weather Capacity: 890 rpm

G. Pump shall be capable of operating at 50 Hz continuously without issues to meet the dry weather condition.

H. Maximum Motor Horsepower: 135 per pump

I. Pump Suction and Discharge Size: 14"

J. Pump Suction Elbow: 14" x 16"

2.03 DESIGN REQUIREMENTS

A. All parts shall be so designed and proportioned as to have liberal strength and stiffness and to be especially adapted for the work to be done. Ample room and facilities shall be provided for inspection, repairs, and adjustment.

B. Stainless steel nameplates shall be attached to each pump stating the unit is accepted for use in NEC Class 1, Division 1, Group D, hazardous locations, and giving name of manufacturer, rated capacity, head, speed, serial number, model number, horsepower, voltage, amperes and other pertinent data.

C. The nameplate ratings for the motors shall not be exceeded, nor shall the design service factor be reduced when its pump is operating at any point on its characteristic curve at maximum speed.

2.04 DRY-PIT SUBMERSIBLE PUMPS

A. The pump supplier shall furnish and install explosion proof submersible non-clog wastewater pump units with a submersible electric motor connected for operation on 3 phase, 460 volt, 60 hertz, and a submersible cable 50 feet in length to reach control panel with no splices.

B. Pumps shall be capable of handling raw, unscreened domestic wastewater with a minimum of three inch solid without clogging.

C. Major pump components shall be of grey cast iron, ASTM A-48, Class 35B, with smooth surfaces devoid of blow holes or other casting irregularities. All exposed nuts or bolts shall be AISI type 316 stainless steel. All metal surfaces coming into contact with the pumped media, other than stainless steel, shall be protected by a factory applied spray coating. All casting surfaces must be blast cleaned before coating. All wet surfaces are to be coated with two-part Hempaprim Winter 500 paint system or equal. The total dry film thickness should be at least 120 microns. Zinc dust primer shall not be used.

- D. Sealing design shall incorporate metal-to-metal contact between machined surfaces. Pump to motor unit mating surfaces where watertight sealing is required shall be machined and fitted with Viton® rubber O-rings. Joint sealing will be the result of controlled compression of rubber O-rings in two planes and O-ring contact of four sides without the requirement of a specific bolt torque limit. Rectangular cross sectioned rubber, paper or synthetic gaskets that require specific torque limits to achieve compression shall not be considered as adequate or equal. No secondary sealing compounds, elliptical O-rings, grease or other devices shall be used.
- E. Each pump shall be provided with a tandem mechanical shaft seal system consisting of two totally independent seal assemblies. The seals shall operate in an oil reservoir that hydro-dynamically lubricates the lapped seal faces at a constant rate. The lower, primary seal unit, located between the pump and the oil chamber, shall contain one stationary and one positively driven rotating tungsten-carbide or silicon-carbide ring. The upper, secondary seal unit, located between the oil chamber and the motor housing, shall contain one stationary and one positively driven rotating tungsten-carbide or silicon-carbide ring. Each seal interface shall be held in contact by its own spring system. All seal rings shall be individual solid sintered rings. The seals shall require neither maintenance nor adjustment nor depend on direction of rotation for sealing. The position of both mechanical seals shall depend on the shaft. Mounting of the lower mechanical seal on the impeller hub will not be acceptable. For special applications, other seal face materials shall be available.

Should both seals fail and allow fluid to enter the stator housing, a port shall be provided to direct that fluid immediately to the stator float switch to shut down the pump and activate an alarm. Any intrusion of fluid shall not come into contact with the lower bearings.

The following seal types shall not be considered acceptable or equal to the dual independent seal specified: shaft seals without positively driven rotating members, or conventional double mechanical seals containing either a common single or double spring acting between the upper and lower seal faces. No system requiring a pressure differential to offset pressure and to effect sealing shall be used.

Each pump shall be provided with a lubricant chamber for the shaft sealing system. The lubricant chamber shall be designed to prevent overfilling and to provide lubricant expansion capacity. The drain and inspection plug, with positive anti-leak seal shall be easily accessible from the outside. The seal system shall not rely upon the pumped media for lubrication.

Seal lubricant shall be non-hazardous.

- F. The impeller shall be of ASTM A-532 (Alloy III A) 25% chrome cast iron with a minimum Rockwell Hardness of 60HRC or ASTM A-890 duplex stainless steel with a minimum Brinell Hardness of 250. The impeller shall be dynamically balanced, semi-open, multi-vane, back swept, screw-shaped, non-clog design. The impeller leading edges shall be mechanically self-cleaned automatically upon each rotation as they pass across a spiral groove located on the volute suction. The screw-shaped leading edges of the impeller shall be hardened to Rc 60 and shall be capable of handling solids, fibrous materials, heavy sludge and other matter normally found in wastewater. The screw shape of the impeller inlet shall provide an inducing effect for the handling of up to 5% sludge and rag-laden wastewater. The impeller to volute clearance shall be readily adjustable by the means of a single trim screw. The impeller shall be locked to the shaft, held by an impeller bolt and shall be coated with alkyl resin primer.

- G. The pump volute shall be a single piece grey cast iron, ASTM A-48, Class 35B, non-concentric design with smooth passages of sufficient size to pass any solids that may enter the impeller. Minimum inlet and discharge size shall be as specified. The volute shall have a replaceable suction cover insert ring in which are cast spiral-shaped, sharp-edged groove(s). The spiral groove(s) shall provide trash release pathways and sharp edge(s) across which each impeller vane leading edge shall cross during rotation so to remain unobstructed. The insert ring shall be cast of Hard-Iron® (ASTM A-532 (Alloy III A) 25% chrome cast iron) or stainless steel and provide effective sealing between the multi-vane semi-open impeller and the volute housing.
- H. If applicable, a wear ring system shall be used to provide efficient sealing between the volute and suction inlet of the rotating impeller. Each pump shall be equipped with a replaceable stationary stainless steel ring that is drive fitted to the volute suction inlet.

This pump shall also have a stainless steel impeller rotating wear ring, heat-shrink fitted onto the suction inlet of the impeller.

2.05 MOTOR AND CABLE

- A. The pump motor shall be a NEMA B design, induction type with a squirrel cage rotor, shell type design, housed in an air-filled, watertight chamber. The stator windings shall be insulated with moisture resistant Class H insulation rated for 180°C (356°F). The stator shall be insulated by the current-UV-dip impregnation method using Class H monomer-free polyester resin resulting in a winding fill factor of at least 95%. The motor shall be inverter duty rated in accordance with NEMA MG1, Part 31. The stator shall be heat-shrink fitted into the cast iron stator housing. The use of multiple step dip and bake-type stator insulation process is not acceptable. The use of bolts, pins or other fastening devices requiring penetration of the stator housing is not acceptable. The motor shall be specifically designed for dry-pit submersible pump usage and designed for continuous duty pumping media of up to 40°C (104°F) with an 80°C temperature rise and capable of at least 15 evenly spaced starts per hour. The rotor bars and short circuit rings shall be made of cast aluminum.
- B. The combined service factor (combined effect of voltage, frequency and specific gravity) shall be a minimum of 1.15. The motor shall have a voltage tolerance of plus or minus 10%. The motor shall be designed for operation up to 40°C (104°F) ambient and with a temperature rise not to exceed 80°C. A performance chart shall be provided upon request showing curves for torque, current, power factor, input/output kW and efficiency. This chart shall also include data on starting and no-load characteristics.
- C. The motor horsepower shall be adequate so that the pump is non-overloading throughout the entire pump performance curve from shut-off through run-out.
- D. Thermal switches shall be embedded in the stator end coils to monitor the temperature of each phase winding. One PT-100 type temperature sensor shall be installed in the stator winding. These thermal switches shall be used in conjunction with and supplemental to external motor overload protection and shall be connected to the control panel. The junction chamber shall be sealed off from the stator housing and shall contain a terminal board for connection of power and pilot sensor cables using threaded compression type terminals. A mechanical float switch (FLS) shall be mounted in the junction chamber to signal if there is water intrusion. A pump memory module shall be provided and mounted in the junction chamber to record pump run time, number of starts as well as contain the motor unit performance and manufacturing data and service history. The use of wire nuts or crimp-type

connectors is not acceptable. The motor and the pump shall be produced by the same manufacturer.

- E. The pilot cable shall be designed specifically for use with submersible pumps and shall be type SUBCAB (SUBmersible CABLE) or equal. The cable shall be multi-conductor type with stainless steel braided shielding, a chlorinated polyethylene rubber outer jacket and tinned copper conductors insulated with ethylene-propylene rubber. The conductors shall be arranged in twisted pairs. The cable shall be rated for 600 Volts and 90°C (194°F) with a 40°C (104°F) ambient temperature and shall be approved by Factory Mutual (FM). The cable length shall be adequate to reach the junction box without the need for splices.
- F. The power cable shall be sized according to the NEC and ICEA standards and shall be of sufficient length to reach the junction box without the need of any splices. The outer jacket of the cable shall be oil resistant chlorinated polyethylene rubber. The motor and cable shall be capable of continuous submergence underwater without loss of watertight integrity to a depth of 65 feet or greater.
- G. The cable entry seal design shall preclude specific torque requirements to ensure a watertight and submersible seal. The cable entry shall consist of dual cylindrical elastomer grommets, flanked by washers, all having a close tolerance fit against the cable outside diameter and the cable entry inside diameter. The grommets shall be compressed by the cable entry unit, thus providing a strain relief function. The assembly shall provide ease of changing the cable when necessary, using the same entry seal. The cable entry junction chamber and motor shall be sealed from each other, which shall isolate the stator housing from foreign material gaining access through the pump top. Epoxies, silicones or other secondary sealing systems shall not be considered acceptable.
- H. The pump shaft shall rotate on at least three grease-lubricated bearings. The upper bearing, provided for radial forces, shall be a single roller bearing. The lower bearings shall consist of at least one roller bearing for radial forces and one or two angular contact ball bearings for axial thrust.

The minimum L10 bearing life shall be 100,000 hours at any point along the usable portion of the pump curve at maximum product speed.

The lower bearing housing shall include an independent thermal sensor to monitor the bearing temperature. If a high temperature occurs, the sensor shall activate an alarm and shut the pump down.

- I. Each pump/motor unit shall be equipped with an integral, closed-loop motor cooling system utilizing glycol. The motor cooling jacket shall encircle the stator housing and shall be of Type 304 stainless steel. The closed-loop motor cooling system shall provide heat dissipation for the motor regardless of whether the motor unit is submerged in the pumped media or surrounded by air in dry-pit installation mode. A high efficiency impeller, integral to the cooling system and driven by the pump shaft, shall provide the necessary circulation of the cooling liquid through the system. The cooling liquid shall pass about the stator housing in the closed loop system between the motor housing and close-fitting guide sleeve in turbulent flow providing for superior heat transfer. The cooling system shall have one fill port and one drain port integral to the cooling jacket. The cooling system shall provide for continuous pump operation in liquid or ambient temperatures of up to 40°C (104°F) in accordance with NEMA standards. Operational restrictions that limit the ambient or pumped liquid temperatures at levels less than 40°C are not acceptable.

- J. Pump and motor shaft shall be a solid continuous shaft. The pump shaft is an extension of the motor shaft. Couplings shall not be acceptable. The pump shaft shall be of AISI 431 stainless steel.

2.06 SURFACE PREPARATION AND SHOP PAINTING

- A. Before exposure to weather and prior to shop painting, surfaces shall be thoroughly cleaned, dry and free from mill-scale, rust, grease, dirt, and other foreign matter.
- B. Pumps and motors shall be shop coated.
- C. Nameplates shall be properly protected during painting.
- D. Gears, bearing surfaces, and other similar surfaces obviously not to be painted shall be given a heavy shop coat of grease or other suitable rust-resistant coating. This coating shall be maintained as necessary to prevent corrosion during periods of storage and erection and shall be satisfactory to Engineer up to time of final acceptance test.

2.07 PUMP PROTECTION AND MONITORING SYSTEM

- A. A self-contained monitoring and status (MAS) module shall be furnished for each pump by the pump supplier. The MAS shall be a two-piece design including the base module and operator panel. The operator panel shall be a dead-front mounted panel to be located in the control building. The operator panel shall include a navigation keypad alarm acknowledgement keypad, warning lamp, alarm lamp and a 2-lin LCD display. The digital display shall provide the local readout of pump/motor sensor and alarm status. The base module shall contain a processor for the logging of measurements and alarm events. Local MAS system change shall be made by use of the soft touch keypad or local connection by means of a laptop computer. Remote indication of the pump unit status shall be possible with connection to customer PLC or via LAN. The pump monitoring system shall be a Flygt MAS 801 or equal and shall be equipped with the following sensors:
 - 1. Motor winding terminal switch (one per winding).
 - 2. One PT-100 temperature probe for stator temperature.
 - 3. One PT-100 temperature probe for bearing temperature.
 - 4. One float-type leakage sensor (FLS) for detection of water intrusion into the stator chamber.
 - 5. One pump memory unit shall be installed in the cable junction chamber.
 - 6. One VIS-10 vibration sensor. The sensor shall be capable of monitoring displacement in one plane.

2.08 POWER AND SENSOR CONDUCTORS

- A. The pumps shall be supplied with power and sensor conductors encapsulated in a single cable wherever possible. Whenever separate cables are provided for power and sensors, cable(s) shall be fixed to pump using a watertight compression assembly.

- B. Electrical power cord shall be water resistant 600 volts, 60°C, UL and/or CSA approved and applied dependent on amp draw for size. Cord shall be 50 feet in length to reach junction box with no splices and appropriate slack.
- C. Power cord leads shall be connected to motor leads by power distribution blocks.
- D. Cord cap assembly where bolted to connection box assembly shall be sealed with a Buna N Rubber O-ring on a beveled edge to assure proper sealing.

PART 3 – EXECUTION

3.01 PUMP MANUFACTURER'S FIELD REPRESENTATIVE

- A. Pump supplier shall furnish services of a factory pump representative who has complete knowledge of proper operation and maintenance to inspect final installation and supervise a test run of equipment. The factory representative shall make a minimum of two (2) trips, to verify the installation after each pump and after all five (5) pumps are installed and to supervise the test run of all pumps once all the equipment is installed.
- B. The pump supplier shall submit a Certificate of Proper Installation for the pumps stating that the installation of the equipment is satisfactory, that the equipment is ready for operation and that Owner's operating personnel have been suitably instructed in the operation.
- C. Installation shall be in strict accordance with the manufacturer's instructions and recommendations. Installation shall include furnishing the required oil and grease for initial operation. The grades of oil and grease shall be in accordance with the manufacturer's recommendations.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

- A. Measurement for dry-pit submersible wastewater pumps shall be made on a lump sum basis. This item shall include furnishing five pumps, appurtenances, spare parts, testing and start up as specified herein.

4.02 PAYMENT

- A. Payment of amount of bid for these items will be made as measured above, which shall be full compensation for all equipment, materials, labor, shipping and incidentals in accordance with these specifications. Partial payments for shop drawings and fabrication will be allowed.