



NOTICE TO BIDDERS

The City of Edinburg is soliciting sealed bids to be received by the City Secretary's Office located at 415 W. University Drive, Edinburg, Texas 78541. City of Edinburg normal business days are Monday through Friday between the hours of 8:00 a.m. to 5:00 p.m. and shall be closed on recognized holidays.

Bids will be received until **3:00 p.m. Central Time**, on **Monday, February 10, 2020**, shortly thereafter all submitted bids will be gathered and taken to the Edinburg City Hall Community Room, 1st Floor, to be publicly opened and read aloud. Any bid received after the closing time will not be accepted and will be returned to the bidder unopened. It is the responsibility of the bidder to see that any bid submitted shall have sufficient time to be received by the City Secretary's Office prior to the bid opening date and time. The receiving time in the City Secretary's Office will be the governing time for acceptability of the bids. Bids will not be accepted by telephone or facsimile machine. All bids must bear original signatures and figures. The Bid shall be for:

BID NO. 2020-31 VERTICAL BAR SCREEN

If you have any questions or require additional information regarding this bid, please contact Mr. Rey Casas, Lift Station Supervisor, at (956) 292-2045.

If Hand-delivering Bids: 415 West University Drive,
c/o City Secretary Department (1st Floor)

If using Land Courier (i.e., FedEx, UPS): City of Edinburg
c/o City Secretary
415 West University Drive
Edinburg, Texas 78541

If Mailing Bids: City of Edinburg
c/o City Secretary
P.O. Box 1079
Edinburg, TX 78540-1079

The City of Edinburg reserves the right to refuse and reject any or all bids and to waive any or all formalities or technicalities and to accept the bid deemed most advantageous to the City, and hold the bids for a period of **60** days without taking action.

Bids must be submitted in an envelope sealed with tape and prominently marked on the lower left hand corner of the bid envelope with corresponding bid number and title.

CITY OF EDINBURG INSTRUCTIONS TO BIDDERS

DEVIATION FROM SPECIFICATION

Please read your specifications/requirements thoroughly and be sure that the SERVICES offered comply with all specifications/requirements. Any variation from the specifications/requirements must be clearly indicated by letter attached to your bid referencing variations on a point-by-point basis. If no exceptions are noted, and you are the successful bidder, it will be required that the SERVICES be provided as specified.

PURPOSE

1. The purpose of these specifications/requirements and bidding documents is for the purchase of **VERTICAL BAR SCREEN** for the City of Edinburg.

2. The SERVICES to be furnished under this bid shall be as specified in these bid documents. All specifications/requirements shown are minimum. There is no intention to disqualify any bidder who can meet these specifications/requirements.

SUBMITTAL OF BID

Bids will be submitted in sealed envelopes upon the blank bid form attached hereto. Submit two (2) complete sets of the bid, one (1) original marked "**ORIGINAL**," and one (1) copy marked "**COPY**". Each bid must be completely filled out and SUBMITTED IN ORIGINAL FORM, complete with all supporting documentation. Bids submitted by facsimile (fax) or electronically will **NOT** be accepted. Submittal of a bid in response to this solicitation for Bids constitutes an offer by the Bidder. Bids which do not comply with these specifications/requirements may be rejected at the option of the City. Bids must be filed with the City of Edinburg, before opening day and hour. No late Bids will be accepted. They will be returned to Bidder unopened (if properly identified).

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Texas 78541

If Mailing Bids: P.O. Box 1079, Edinburg, TX 78540-1079

PREPARATION OF BID

Bids **MUST** give full firm name and address of bidder, and be manually signed. Failure to do so will disqualify your bid. Person signing bid must show title or AUTHORITY TO BIND HIS/HER FIRM IN A CONTRACT.

Firm name and authorized signature must appear on each page that calls for this information. The legal status of the Respondent/Bidder whether corporation, partnership, or individual, shall also be stated in the bid. A corporation shall execute the bid by its duly authorized officers in accordance with its corporate by-laws and shall also list the state in which it is incorporated. A partnership Respondent/Bidder shall give full names and addresses of all partners. All partners shall execute the bid. Partnership and Individual Respondent/Bidder shall state in the bid the names and addresses of all persons with a vested interest therein. The place of residence of each Respondent/Bidder, or the office address in the case of a firm or company, with county and state and telephone number, shall be given after the signature.

ALTERATIONS/AMENDMENTS TO BID

Bids **CANNOT** be altered or amended after opening time. Alterations made before opening time must be initialed by bidder guaranteeing authenticity. No bid may be withdrawn after opening time without acceptable reason in writing and only after approval by the City of Edinburg.

INSTRUCTIONS TO BIDDERS (Continued):

SALES TAX

State sales tax must not be included in the bid.

SUBSTITUTIONS

No substitutions or cancellations will be permitted without written approval of City of Edinburg.

NO BID RESPONSE

If unable to submit a bid, bidder should return inquiry giving reasons.

EXCEPTIONS

Any additions, deletions, or variations from the following specifications/requirements must be noted. The bidder shall attach to his/her bid sheet a list of any exceptions to the specifications/requirements if unable to do so, on specification sheet.

BRAND OR MANUFACTURER REFERENCE

Unless otherwise specified, any catalog or manufacturer's reference or brand name used in describing an item is merely descriptive, and not restrictive, and is used only to indicate type and style of product desired. Bids on alternate brands will be considered if they meet specification requirements. If a bidder quotes on equipment other than the one(s) specified in the bid, sufficient specifications and descriptive (pictured literature) data must accompany same to permit thorough evaluation. In the absence of these qualifications, he/she will be expected to furnish the product called for.

DELIVERY

Number of days required to deliver SERVICES after receiving order must be stated in the bid. Failure to so state will obligate bidder to complete service delivery within ONE day.

DELAY IN SERVICE DELIVERY

When delay can be foreseen, Bidder shall give prior notice to City of Edinburg. Bidder must keep City of Edinburg advised at all times of status of order. Default in promised service delivery (without acceptable reasons) or failure to meet specifications/requirements, authorizes the City of Edinburg to purchase such SERVICES elsewhere and charge increase in cost to defaulting vendor. Acceptable reasons for delayed delivery are as follows: Acts of God (floods, tornadoes, hurricanes, etc.), acts of government, fire, strikes, war; Actions beyond the control of the successful bidder.

SERVICE DELIVERED PRICING

Bids in units of quantity specified - extend and show total. In the event of discrepancies in extension, unit prices will govern. Bids subject to unlimited price increase will not be considered.

VALID BID TIME FRAME

The City may hold bids 60 days after bid opening without taking action. BIDDERS shall be required to hold their Bids firm for the same period of time.

RIGHT TO REJECT/AWARD

The City of Edinburg reserves the right to refuse and reject any or all Bids, and to waive any or all formalities or technicalities, and to make such awards of contract as may be deemed to be the best and most advantageous to the City of Edinburg.

INSTRUCTIONS TO BIDDERS (Continued):

MULTIPLE VENDOR CONTRACTS

Bidders are advised that the City of Edinburg may award Service Contracts to multiple vendors based on low bid per item basis. All items specified on the "Bid Form" **must** reflect the individual unit prices. The City of Edinburg reserves the right to award all items individually or in any combination thereof. The City reserves the right to award each item separately or individually, award to one or multiple vendors, and accept the proposal deemed most advantageous to the City.

INDEMNIFICATION CLAUSE

The Bidder agrees to indemnify and save harmless the City, from all suits and actions of every nature and description brought against them or any of them, for or on account of the use of patented appliances, products or processes, and he shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted upon request of the Purchasing Agent, as a necessary requirement in connection with the final estimate for payment in which such patented appliance, products or processes are used.

ADDENDA

Bidder shall carefully examine the bid forms, specifications/requirements, and instructions to Bidders. Should the bidder find discrepancies in, or omissions from bid forms, specifications/requirements, or other documents, or should he/she be in doubt as to their meaning, he/she should at once notify the Purchasing Agent at 956-388-1895 and obtain clarification by addendum prior to submitting any bid. Explanations, interpretations, and supplemental instructions shall be in the form of written Addenda which shall become a part of the Contract documents. Said Addenda shall be mailed, e-mailed, hand delivered and/or faxed, to all prospective Bidders. All Addenda issued in respect to this project shall be considered official changes to the original bid documents. Verbal statements in response to inquiries and/or requests for explanations shall not be authoritative nor binding. It shall be the Bidder(s) responsibility to ensure that they have received all Addenda in respect to this project. Furthermore, Bidders are advised that they must recognize, comply with, and attach a signed copy of each Addendum which shall be made part of their Bid Submittal. Bidder(s) signature on Addenda shall be interpreted as the bidder's "recognition and compliance to" official changes as outlined by the City of Edinburg and as such are made part of the original solicitation documents. Failure of any bidder to receive any such addendum or interpretation shall not relieve such Bidder from its terms and requirements. The City may issue a written addendum no later than five calendar days prior to the date bids must be received. Addendums are available online at www.cityofedinburg.com.

PAYMENT

The City of Edinburg will execute payment by mail in accordance with the State of Texas Pay Law after SERVICES have been provided and invoiced. No other method of payment will be considered.

SYNONYM

Where in this bid package ITEMS OR SERVICES is used its meaning shall refer to the purchase of VERTICAL BAR SCREEN as specified.

ASSIGNMENT

Neither the Bidder's contract nor payment due to an awarded vendor may be assigned to a third party without the written approval of the Purchasing Department for the City of Edinburg.

INTERPRETATIONS

Any questions concerning the conditions and/or specifications/requirements with regards to this solicitation for Bids shall be directed to the designated individuals as outlined in the Request for Bids. Such interpretations, which may affect the eventual outcome of this request for Bids, shall be furnished in writing to all prospective Bidders via

INSTRUCTIONS TO BIDDERS (Continued):

Addendum. No interpretation shall be considered binding unless provided in writing by the City of Edinburg in accordance with paragraph entitled "Addenda".

STATUTORY REQUIREMENTS

It shall be the responsibility of the successful Bidder to comply with all applicable State & Federal laws, Executive Orders and Municipal Ordinances, and the Rules and Regulations of all authorities having jurisdiction over the work to be performed hereunder and such shall apply to the contract throughout, and that they will be deemed to be included in the contract as though written out in full in the contract documents. (To include issues related to health, environmental, and safety to name a few.)

BIDDER'S EMPLOYEES

Neither the Bidder nor his/her employees engaged in fulfilling the terms and conditions of this Purchase Contract shall be considered employees of the City. The method and manner of performance of such undertakings shall be under the exclusive control of the vendor on contract. The City shall have the right of inspection of said undertakings at any time.

RIGHT TO WAIVE

City of Edinburg reserves the right to waive or take exception to any part of these specifications/requirements when in the best interest of the City of Edinburg.

COOPERATIVE PRICING

Bidders are advised that in addition to responding to our "local" solicitation for bids/Bids with Dealer pricing, vendors/contractors are encouraged to provide pricing on the below referenced items/products/services based on BuyBoard, TX-MAS, H-GAC and/or any other State of Texas recognized and approved cooperative which has complied with the bidding requirements for the State of Texas. If bidding other than or in addition to "dealer" pricing, kindly duplicate the bid forms for each bid being provided from a cooperative contract. Any and all applicable fees must be included. All cooperative pricing must be submitted on or before bid opening date and hour.

TIME ALLOWED FOR ACTION TAKEN

The City of Edinburg may hold bids **60** days after the opening of Bids without taking action. Bidders are required to hold their Bids firm for same period of time.

PREPARATION OF BID

The City of Edinburg shall not be held liable for any costs incurred by any bidder for work performed in the preparation of and production of a bid or for any work performed prior to execution of contract.

CONFIDENTIAL INFORMATION

Any information deemed to be confidential by the bidder should be clearly noted on the pages where confidential information is contained; however, the City cannot guarantee that it will not be compelled to disclose all or part of any public record under Texas Public Information Act, since information deemed to be confidential by the bidder may not be considered confidential under Texas Law, or pursuant to a Court order.

VERBAL THREATS

Any threats made to any employee of the City, be it verbal or written, to discontinue the providing of item/material/services for whatever reason and/or reasons shall be considered a breach of contract and the City will immediately sever the contract with the Vendor on contract.

INSTRUCTIONS TO BIDDERS (Continued):

MATHEMATICAL ERRORS

In the event that mathematical errors exist in any bid, unit prices/rates -v- totals, unit prices/rates will govern.

AUDIT

The City of Edinburg reserves the right to audit the vendor's books and records relating to the performance of this contract. The City of Edinburg, at its own expense, shall have the right at all reasonable times during normal business hours and upon at least twenty-four (24) hours' advance notice, to audit, to examine, and to make copies of or extracts from the books of account and records maintained by the vendor(s) with respect to the Supply/Service and/or Purchase Contract. If such audit shall disclose overpayment by City to vendor, written notice of such overpayment shall be provided to the vendor and the amount of overpayment shall be promptly reimbursed by vendor to the City. In the event any such overpayment is not paid within ten (10) business days after receipt of such notice, the unpaid amount of such overpayment shall bear interest at the rate of one percent (1%) per month from the date of such notice until paid.

PAST PERFORMANCE

Vendor's past performance shall be taken into consideration in the evaluation and award of Service Contract for the Purchase of SERVICES.

JURISDICTION

Contract(s) executed as part of this solicitation shall be subject to and governed under the laws of the State of Texas. Any and all obligations and payments are due and performable and payable in Hidalgo County, Texas.

VENUE

The parties agree that venue for purposes of any and all lawsuits, cause of action, arbitration, and/or any other dispute(s) shall be in Hidalgo County, Texas.

IF YOU HAVE ANY QUESTIONS ABOUT COMPLIANCE, PLEASE CONSULT YOUR OWN LEGAL COUNSEL. COMPLIANCE IS THE INDIVIDUAL RESPONSIBILITY OF EACH PERSON OR AGENT OF A PERSON WHO IS SUBJECT TO THE FILING REQUIREMENT. AN OFFENSE UNDER CHAPTER 176 IS A CLASS "C" MISDEMEANOR.

CONFLICT OF INTEREST

CHAPTER 176 OF THE TEXAS LOCAL GOVERNMENT CODE

Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that any vendor or person considering doing business with a local government entity disclose in the Questionnaire Form CIQ, the vendor or person's affiliation or business relationship that might cause a conflict of interest with a local government entity. By law, this questionnaire must be filed with the records administrator of the City of Edinburg not later than the 7th business day after the date the person becomes aware of facts that require the statement be filed. See Section 176.006, Local Government Code. A person commits an offense if the person violates Section 176.006, Local Government Code. An offense under this section is a Class C misdemeanor. For more information or to obtain Questionnaire CIQ go to the Texas Ethics Commission web page at www.ethics.state.tx.us/forms/CIQ.pdf.

CERTIFICATE OF INTERESTED PARTIES (Form 1295)

In 2015, the Texas Legislature adopted [House Bill 1295](#), which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The law applies only

INSTRUCTIONS TO BIDDERS (Continued):

to a contract of a governmental entity or state agency that either (1) requires an action or vote by the governing body of the entity or agency before the contract may be signed or (2) has a value of at least \$1 million. The disclosure requirement applies to a contract entered into on or after January 1, 2016. For more information go to the Texas Ethics Commission web page at www.ethics.state.tx.us/forms/CIQ.pdf.

HB 89

The 85th Texas Legislature approved new legislation, effective Sept. 1, 2017, which amends Texas Local Government Code Section 1. Subtitle F, Title 10, Government Code by adding Chapter 2270 which states that a governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it:

- 1) does not boycott Israel; and
- 2) will not boycott Israel during the term of the contract

AWARD

For purposes of this project, award will be contingent on approval of budget.

CONSIDERATION OF LOCATION OF BIDDER'S PRINCIPAL PLACE OF BUSINESS

The City may give local vendors, whose principal place of business is located within the City of Edinburg, and whose bid is within five percent (5%) of the lowest bid price preference as allowed by Section 271.9051 of the Local Government Code

SPECIAL CIRCUMSTANCES

In the event that the City of Edinburg has an immediate need for a particular service(s) that is/are on contract and the successful vendor on contract is not able to meet the special service delivery needs of the City of Edinburg, the City of Edinburg reserves the right to purchase such services elsewhere to fulfill its' immediate need.

TERMINATION OF CONTRACT

The City of Edinburg reserves the right to terminate the contract if, in the opinion of the City of Edinburg, the successful vendor's performance is not acceptable, if the City is being repeatedly over charged, improperly charged, no funds are available, or if the City wishes, without cause, to discontinue this contract. Termination will be in written form allowing a 30-day notice. The bidder shall be afforded the same right to terminate this contract in the same manner.

STANDARD INSURANCE REQUIREMENTS

Staff may waive insurance requirements for contracts \$0 - \$4,999.99, including but not limited to contracts for food, materials, supplies, and construction. Workers' Compensation in amounts which satisfy statutory coverage shall be required for construction projects.

The following insurance requirements will be included in all City contracts of \$5,000 - \$14,999.99. In contracts not involving building and construction projects, as that activity is defined in TEX. LABOR CODE §406.096, contractors may obtain alternative form of worker accident insurance with minimum limits of liability of \$100,000 per claim.

INSTRUCTIONS TO BIDDERS (Continued):

Minimum Insurance Requirements	
Type of Coverage	Limits of Liability
Worker's Compensation	Statutory Coverage
Comprehensive General Liability (City named as additional insured) Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits

The following insurance requirements will be included in all City contracts of \$15,000 or more.

- (1) The successful bidder will be required to carry the following insurance coverage and limits of coverage, as well as list the City as an additional insured to liability coverage as requested by the City. In addition, the successful bidder shall provide the City with evidence of coverage and furnish acceptable proof of payment of insurance premiums.
- (2) The successful bidder will be required to secure and/or have insurance coverage in force with an admitted property and casualty insurance company licensed by the State of Texas to conduct business in the State of Texas.
- (3) In contracts not involving building and construction projects, as that activity is defined in TEX. LABOR CODE §406.096, contractors may obtain alternative form of worker accident insurance with minimum limits of liability of \$100,000 per claim.

Minimum Insurance Requirements	
Type of Coverage	Limits of Liability
Worker's Compensation	Statutory Coverage
Employer's Liability	Bodily Injury by Accident: \$100,000 each accident Bodily Injury by Disease: \$100,000 each employee/\$500,000 policy limit
Comprehensive General Liability Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits
Comprehensive Auto Liability Bodily Injury	\$100,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits

INSTRUCTIONS TO BIDDERS (Continued):

City's Protective Liability Bodily Injury	\$250,000 each person/\$500,000 each occurrence
Property Damage	\$100,000 each occurrence/\$100,000 aggregate or \$500,000 combined single limits

Policies must name the City of Edinburg as an Additional Insured.

Certificates of insurance naming the CITY as an additional insured shall be submitted to the CITY for approval prior to any services being performed by Contractor. Each policy of insurance required hereunder shall extend for a period equivalent to, or longer than the term of the Contract, and any insurer hereunder shall be required to give at least thirty (30) days written notice to the CITY prior to the cancellation of any such coverage on the termination date, or otherwise. This Contract shall be automatically suspended upon the cancellation, or other termination, of any required policy of insurance hereunder, and such suspension shall continue until evidence that adequate replacement coverage is provided to the CITY. If replacement coverage is not provided within thirty (30) days following suspension of the Contract, the Contract shall automatically terminate.

BID BOND REQUIREMENTS – CONSTRUCTION PROJECTS ONLY

If the contract amount is over twenty-five-thousand dollars (\$25,000) for construction of the project, the successful bidder shall provide a bid guarantee, give a good and sufficient bond in the full amount of the contract price for the faithful performance of such contract, executed by a surety company authorized to do business in the State of Texas, in accordance with Article 5160, Vernon's Texas Civil Statutes, and amendments thereto. A payment bond in the full amount of the contract price to assure payment shall be required by law of all persons supplying labor and material in the execution of the project provided for in the contract documents.

A bid guarantee equivalent to five percent (5%) of the bid price will be required from each bidder. The "bid guarantee" shall consist of a firm commitment, such as a bid bond, certified check or other negotiable instrument accompanying a bid as assurance that the bidder will upon acceptance of his/her bid, execute such contractual documents as may be required within the time specified.

A performance bond on the part of the contractor for one-hundred percent (100%) of the contract price will be required. A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.

A payment bond on the part of the contractor for one-hundred percent (100%) of the contract price will be required. A "payment bond" is one executed in connection with a contract to assure payment, as required by law, of all persons supplying labor and material in execution of the work provided for in the contract documents.

Bidders are expressly advised to review the contract documents fully and insurance requirements of the proposed contract as to their legal requirements and the causes which may lead to the disqualification of a bidder and/or rejection of a bid proposal. No bid may be withdrawn within a period of sixty (60) days after the dated fixed for opening the bids. Unless all bids are rejected, the Owner will give Notice of Award of Contract to the successful bidder as soon as possible consistent with the time for a thorough analysis of bids submitted. Bidders are expected to inspect the site of work and to inform themselves regarding all local conditions which may affect their bid.

HOUSE BILL 89 VERIFICATION

I, _____, the undersigned representative of _____, (Company or Business name) (hereafter referred to as company) **being an adult over the age of eighteen (18) years of age, verify that the company named-above, under the provisions of Subtitle F, Title 10, Government Code Chapter 2270:**

- 1. Does not boycott Israel currently; and**
- 2. Will not boycott Israel during the term of the contract.**
- 3) Is not currently listed on the State of Texas Comptroller's Companies that Boycott Israel List located at <https://comptroller.texas.gov/purchasing/publications/divestment.php>**

Pursuant to Section 2270.001, Texas Government Code:

1. "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and

2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

SIGNATURE OF COMPANY REPRESENTATIVE:

TYPE/PRINT NAME AND TITLE:

DATE:

**CITY OF EDINBURG
REQUEST FOR BIDS FOR
VERTICAL BAR SCREEN**

BID NO. 2020-31

BID OPENING DATE: February 10, 2020 at 3:00 p.m.

It is the intent of this Request for Bids to describe and ultimately make it possible for the City of Edinburg to purchase the below mentioned **VERTICAL BAR SCREEN.**

GENERAL REQUIREMENTS AND AGREEMENT FOR VERTICAL BAR SCREEN:

Vertical bar screen is for Hidalgo County prison complex. Control panel drawings, weight and lift points, hydraulic calculations compliance to design, screen raw waste water shall discharge in a washer/compactor, screen shall be capable of operating at 30 percent blinded. Mechanically screen with submerged rotating parts, pulley, cogwheel, sprockets, bearings, shaft that require maintenance are not acceptable. Multiple rake is not acceptable. Screen technology shall be straight bar, control panel. Power requirements 240/480 Volt, Emergency stop, manually controlled.

SECTION
MECHANICALLY CLEANED SCREENS AND
APPURTENANCES

PART 1 - GENERAL

1.01 SECTION DESCRIPTION

- A. Manufacturer shall provide and test mechanically one (1) vertical bar screen front cleaning, downstream return, with motors, controls and appurtenances as indicated and specified.
- B. The screen and control panels shall be a complete factory manufactured.

1.02 REFERENCES SPECIFICATIONS, CODES, AND STANDARDS

- A. American Gear Manufacturers Association (AGMA)
- B. National Electrical Manufacturers Association (NEMA)
- C. American Federation of Bearing Manufacturers Association (AFBMA)
- D. American Society for Testing and Materials (ASTM)
- E. Underwriters Laboratory

1.03 QUALITY ASSURANCE

- A. Experience:
 - 1. The Manufacturer of the vertical bar screen specified herein shall have had equipment of this type in service for period of the last five (5) years in a minimum of 25 installations in order to be considered.
 - 2. The vertical bar screen shall be assembled and shop tested at the manufacturing facility prior to shipment.
- B. Equipment specified shall be the product of one (1) manufacturer.
- C. Owner shall obtain the screens, motors and appurtenances from the mechanically cleaned screen manufacturer, as a complete and integrated package to insure proper coordination and compatibility and operation of the system.
- D. Equipment specified shall be manufacturer's standard cataloged product and modified to provide compliance with the drawings, specifications and the service conditions specified and indicated.

- E. Shop tests as specified.
- F. The manufacturer shall be able to send one technician. Service of a factory-trained technician shall be provided and specifically trained on type of equipment specified. Service technician shall be present on site for all items listed below:
 - 1. Functional testing: calibrate, check alignment and perform a functional test.
 - 2. Field performance testing.
 - 3. Training: field operation and maintenance instruction including all materials, slides, videos and handouts.
 - 4. Any additional time required of the factory trained service technician to assist in placing the equipment in operation at no additional cost to the Owner.
- G. Electrical Equipment Labeling Requirements:
 - 1. Equipment control panel shall be UL listed assembly.
- H. Fabrication shall be in compliance with all applicable ASTM 967 standards.
- I. Factory welding shall use shielded arc, inert gas, TIG method.
- J. All stainless steel subassemblies shall be acid passivated after welding for corrosion resistance and to provide a superior surface finish. The passivation shall be done by using an acid passivation paste in the weld and heat-affected areas and spray-on acid solutions elsewhere. After passivation, the weldments shall be thoroughly rinsed with clean water and allowed to air dry.

1.04 WARRANTY

Manufacturer shall provide a written one-year standard warranty from the date of use of the vertical bar screen equipment to guarantee that there shall be no defects in material or workmanship in any items supplied.

1.05 SUBMITTALS

- A. Submit the following shop drawings:
 - 1. Certified shop and erection drawings. Manufacturer shall submit electronic files of the proposed equipment in the capacity, size, and arrangement as indicated and specified.
 - 2. Drawings showing materials of construction, thicknesses, operating and maintenance envelope and assembly weight.

4. Hydraulic calculations verifying compliance to the design criteria.
5. Shop drawing data for accessory items.
6. Manufacturer's literature as needed to supplement certified data.
7. Operating and maintenance instructions and parts lists.
8. Listing of reference installations as specified with contact names and telephone numbers.
9. List of recommended spare parts other than those specified.
10. Recommendations for short and long-term storage.
11. Shop and field testing procedures, set up and equipment to be used.
12. Special tools.
13. Gear reducer data including service factor, efficiency, torque rating and materials.
14. Schematic control and power wiring diagrams including interconnecting and internal wiring diagrams.
15. Control panel drawings.
16. Manufacturer's product data.
17. Equipment weight and lifting points for installation and removal purposes.
18. Number, size and weight of pieces shipped.

1.05 SPARE PARTS

A. Spare parts shall be provided and shall be interchangeable with similar parts installed.

1. Spare parts:
 - a. One (1) strap.
 - b. Two (2) sets of rake wheels.
 - c. One (1) set of slack sides bushing.
 - d. One (1) set of top detection bushing.
2. One (1) set of all special tools required.

PART 2 - PRODUCTS

2.01 SYSTEM DESCRIPTION

- A. Screening system capacities and operating data shall be indicated in the mechanically cleaned screen schedule.
- B. Screen shall be installed in a new junction box as specified and indicated.
- C. Service: Screen raw wastewater.
- D. Screen shall discharge in a washer/compactor.
- E. The screen shall be capable of operating with the screen 30 percent blinded.
- F. Mechanically cleaned screen shall be front-clean and back-discharge, and installed in a new junction box.
- G. Mechanically cleaned screen with submerged rotating parts, pulley, cogwheel, sprockets, bearings, shaft that require regular maintenance are not acceptable.
- H. Mechanically cleaned screen with an inclination different from 90° is not acceptable.
- I. Multiple rake technology is not acceptable.
- J. The screen technology shall be straight bars. Perforated screen basket is not acceptable.
- K. Interface:
 - 1. Room for inspection, adjustment and repair shall be provided.

2.02 MANUFACTURERS

- A.
- B. Or pre-approved equal. screening manufacturer seeking pre-approval must submit application a minimum of two (2) weeks prior to bid day. Charges for additional engineering to alter site Plans to meet the intention of the specification shall be at the cost of the manufacturer requesting such change.

2.03 SCREEN CONSTRUCTION

- A. General
 - 1. Screen: Shall mechanically front-clean and downstream discharge.
 - 2. Mechanically-cleaned screen shall be front cleaning since the scraper shall

blinded without exceeding nameplate ratings for current and power and without operating in the service factor.

2.05 CONTROLS AND INSTRUMENTATION

- A. All controls shall be provided for the fully automatic operation of the screen. The screen shall be factory wired so that the electrician is only required to make the electrical connections to the control panel and from the control panel to a junction box at the screens.
- B. Control panel shall UL listed and manufactured in the United States.
- C. The mechanically cleaned bar screen shall be furnished with a complete control system housed in an enclosure complying with the specific requirements:
 - 1- Design Local control panel shall be delivered to jobsite, prewired ready for installation.
 - 2- Control panel: NEMA 4X stainless steel.
 - 3- Power Requirements: 240/480 Volt, 60 Hz, 3-Phase.
 - 4- Motor Requirements: 3/4 Hp.
 - 5- Emergency Stop Button.
 - 6- Unit shall be controlled manually, on timer or with an ultrasonic water level.
- D. The local control panel plus other accessories shall perform the functions of:
 - 1- Circuit breaker:
 - a. Motor starters.
 - b. Control power transformer.
 - c. Obstruction alarm.
- E. The following controls shall be provided with the control panel:
 - 1- Reversing motor starter for the motor.
 - 2- START, STOP and RESET pushbutton.
 - 3- HAND-OFF-REVERSE selector switch.

2.06 DESIGN REQUIREMENTS

Mechanically Cleaned Screen	Data
Number of screen	1
Peak flow	5.4 MGD
Clear opening between bars	1/2"
Angle of inclination	90°
New junction box width	3.2'

New junction box depth	13.21'
New junction box length	9.8'
Headloss at peak flow and 30% of blockage	1.87'

2.07 SHOP TESTING

- A. Motors shall be shop testing.
- B. Control panel shall be shop testing:
 - a. Test all functions and alarms of the control panel.
- C. Screen shall be shop testing:
 - a. The bar screen shall be completely factory assembled and inspected prior to shipment.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. All installed items shall be in accordance with shop drawings and manufacturer instructions with no exceptions.
- B. Manufacturer shall furnish four copies of operation and maintenance manuals which shall be retained at the installation site to assist plant operators.

3.02 FIELD TESTING

- A. Field testing shall not be conducted without a procedure with no exceptions noted, calibration certificates for all testing equipment, and a completed and signed pretesting check list.
- B. After installation, inspection, operation, testing and adjustment of the equipment, a manufacturer's field service technician shall conduct performance test for the unit in presence of the owner to determine its ability to deliver its rated capacity under specified conditions.
 - a. Performance Test:

During tests, observe and record flow rates, junction box water depths, headloss, and motor inputs. Repeat tests until specified results are obtained.
- C. Make all adjustments necessary to place equipment in specified working order at time of above tests.

END OF SECTION

remove debris from the upstream side of the screen.

3. Screenings shall be discharged on the downstream side of screen through discharge chute in a washer/compactor.

B. Frame

1. Frame: Shall be constructed of type 304L stainless steel.
2. The side frames shall be suitably reinforced to support all loads imposed on the mechanism during operation, installation, assembly, or transportation.
3. Anchor support frames onto the operating floor shall be of type 304L stainless steel hardware.
4. Screen manufacturer representative shall approve screen frame field assembly.
5. Screen Enclosure: screen shall be fully enclosed above the operating floor with hinged access door.
6. The access of all the mechanical parts by the hood has to be secured by a hood latch and cover detector. The height of the hood shall be the level of one normal person stand up. Machine with a higher hood will be excluded automatically.

C. Bar Rack and Baseplate

1. Material: Shall be of type 304L stainless steel.
2. The vertical screen shall consist of rectangular 304L stainless steel bars.
3. The bar screen shall be firmly fastened at top and bottom.
4. The bar screen shall be replaceable without welding.
5. Bar spacing shall be as specified. Provide screens accurately constructed to provide a clear spacing of ½” between the bars.
6. The bars shall be straight and cover the full equipment width. The point of discharge from the bar screen shall be 3’-11 ½” and screenings shall be discharged into a washer/compactor.

D. Dead Plate

1. Bar screens shall have a dead plate and stiffeners construct of type 304L stainless steel with a minimum thickness of 1/8” (3 mm).

2. The dead plate shall be 1/8" thick constructed of type 304L stainless steel plate and extends from the top of the bar screen to the point of discharge.

E. Discharge Chute

1. A discharge chute shall be added to divert screenings from screen to self-dumping hopper.
2. Material: shall be of type 304L stainless steel, minimum thickness of 1/8".

F. Single Shovel Rake

1. The debris shall be removed from the bar screen by a 304L stainless steel single shovel rake assembly designed to mesh with the bar screen.
2. The single shovel rake shall consist of type 304L stainless steel teeth that penetrate completely the bar screens to catch and remove the debris that are blocked on the upstream side of the screen.
3. The shovel rake teeth shall be replaceable without welding.

G. Scraper

1. A scraper assembly shall be installed to assist removing the debris from the shovel rake.
2. The scraper ejector shall be type of 304L stainless steel and high-density polyethylene (HDPE) in order to reduce the noise but also shall penetrate completely in the shovel rake to insure effective debris removal.

H. Side Seals

1. To prevent bypass around the sides of the unit, seals shall be mounted on the upstream face of the screen and on each side of the unit.
2. The seals shall be secured in place by backing plates and constructed of type 304L stainless steel.

I. Anchor Bolts, Bolts and Nuts

1. Bolts, nuts, lock washers shall be of type 304L stainless steel.
2. Anchor bolts type shall be of type 304L stainless steel.

J. Drive Mechanism

1. The single shovel rake shall be mounted on one (1) sturdy strap resistant to any chemical agents and frost.
2. A pulley shall be used to transmit a rotational motion.
3. The strap shall be capable of lifting no less than 1,000 pounds.
4. The single shovel rake shall be equipped with four (4) high-density polyethylene (HDPE) castor in order to guide this shovel rake.
5. Two (2) inductive proximity sensors shall be placed at the top of the equipment to command the sense of rotation.
6. The gravity and the weight of the shovel rake shall insure the closing motion.

K. Overload Protection

1. A sensor torque overload (intensity) protection device shall stop the screen and start an alarm. Upstream of this protection, a thermal overload relay shall stop the gear motor.
 - a. Contacts for screen failure shall be provided.

2.04 DRIVE SYSTEM

One (1) motor shall be provided.

A. Motor

1. Motor shall be SEW gear Motor.
2. Motor shall operate without overheating at the speeds specified and indicated.
3. Motor shall have premium efficiency with nominal and minimum efficiencies per NEMA MG1.
4. Rating: 240/480V, 3-ph, 60 Hz, 3/4 HP maximum to limit the consumption of electricity. An electric motor over 3/4 HP will be excluded automatically.
5. Insulation: Shall be class F insulation with Class B temperature rise.
6. Motor shall have high temperature thermal overloads for motor winding high temperature and high motor brake temperature.
7. Motor shall have a sufficient capacity to start and operate screen at 30 percent

**CITY OF EDINBURG
 BID FORM FOR
 VERTICAL BAR SCREEN**

BID NO. 2020-31

BID OPENING DATE: February 10, 2020 at 3:00 p.m.

I/We submit the following bid in **ORIGINAL FORM** for **VERTICAL BAR SCREEN** according to City of Edinburg requirements, less tax:

NOTE: In addition to responding to our “local” solicitation for bids/proposals vendors/contractors are encouraged to provide pricing on the above referenced items/products/services based on Buyboard, H-GAC, TXMAS and/or any other **State of Texas recognized and approved cooperative** which has complied with the bidding requirements for the State of Texas (**any and all applicable fees must be included**). **All cooperative pricing must be submitted on or before bid/proposal opening date and hour.**

<u>CHECK ONE</u>	
<input type="checkbox"/> BUYBOARD	<input type="checkbox"/> H-GAC
<input type="checkbox"/> TX DIR	<input type="checkbox"/> TFC
<input type="checkbox"/> TXMAS	<input type="checkbox"/> OTHER _____
Specify	
CONTRACT NUMBER: _____ COMMODITY NUMBER: _____ (if applicable) (if applicable)	

Item	Estimated Quantity	Description	Unit Price	Extended Price
1	1 each	Vertical bar screen is for Hidalgo County prison complex. Control panel drawings, weight and lift points, hydraulic calculations compliance to design, screen raw waste water shall discharge in a washer/compactor, screen shall be capable of operating at 30 percent blinded. Mechanically screen with submerged rotating parts, pulley, cogwheel, sprockets, bearings, shaft that require maintenance are not acceptable. Multiple rake is not acceptable. Screen technology shall be straight bar, control panel. Power requirements 240/480 Volt, Emergency stop, manually controlled.	\$ _____	\$ _____
2		DELIVERY/SHIPPING FREIGHT/DRUM DELIVERY TIME: _____	\$ _____	\$ _____

BID FORM FOR VERTICAL BAR SCREEN (Continued):

All Addenda issued in respect to this project shall be considered official changes to the original bidding documents. It shall be the Bidder(s) responsibility to ensure that all Addenda have been received. Furthermore, bidders are advised that they must recognize, comply with, and attach a signed copy of each Addendum which shall be made part of their Bid Submittal. Bidder(s) signature on Addenda shall be interpreted as the vendor's "recognition and compliance to" official changes as outlined by the City of Edinburg and as such are made part of the original bidding documents.

Does the Company have an office located in Edinburg, Texas? Yes _____ No _____

Has the Company ever conducted business with the City of Edinburg? Yes _____ No _____

Respectfully submitted this _____ day of _____, 2020.

SIGNATURE: _____

TYPE/PRINT NAME: _____

TITLE: _____

COMPANY: _____

ADDRESS: _____

TELEPHONE NO.: _____

FAX NO.: _____

EMAIL: _____