



Frankfort Plant Board

BID INVITATION #1706

ISSUED ON

November 13, 2020

BY

**THE ELECTRIC & WATER PLANT BOARD OF THE
CITY OF FRANKFORT, KENTUCKY**

FOR

MobiTV Transcoding Equipment

TO BE OPENED ON

December 1, 2020 at 2:00PM

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III. ADVERTISEMENT FOR BID

**The Frankfort Plant Board
305 Hickory Drive
P.O. Box 308
Frankfort, KY 40602**

Separate sealed Bids for MobiTV Transcoding Equipment will be received by the Frankfort Plant Board until 2:00 p.m. local time, December 1, 2020; and then opened and publicly read aloud.

Specifications may be examined at the following location:

Frankfort Plant Board
Service Center
305 Hickory Drive
P.O. Box 308
Frankfort, KY 40602

No bidder may withdraw his bid for a period of ninety (90) days after closing time scheduled for the receipt of Bids.

The Plant Board reserves the right to waive informalities and to accept or to reject any and all bids.

For Bid Correspondence, contact:

Jennifer Hellard
(502) 352-4422
jhellard@fewpb.com

For Technical Correspondence, contact:

David Brown
(502) 352-4545
dbrown@fewpb.com

IV. INTRODUCTION

The Electric & Water Plant Board of the City of Frankfort, Kentucky issues this Invitation to solicit bids on the purchase of MobiTV Transcoding Equipment.

FPB will launch an IP-Video platform to our customer base utilizing MobiTV streaming service. Transcoding equipment for locally-sourced channels is needed. Remote installation, turn up, training, and ongoing support is required.

Quoted prices shall be firm F.O.B. with freight included to Frankfort, Kentucky.

All equipment on this Invitation will be collectively awarded (all or none). **Omitting pricing on an item will result in your bid being rejected.**

Material included on this bid is item specific. No exceptions shall be made.

Please note instructions on Pages 5-7. Failure to adhere to instructions may result in rejection of bid.

**READ CAREFULLY -- BIDDER MUST PROVIDE ALL INFORMATION REQUESTED --
SIGN BID**

If an EEOC Certificate is included as a part of this documentation, it shall be executed and returned as a part of the bid response package. Absence of the EEOC Certificate indicates your organization already has the necessary compliance certificate on file with the Plant Board.

V. INSTRUCTIONS TO BIDDERS

1. SUBMISSION OF BIDS

A. The following certificates or notices are included as a part of this documentation and shall be returned as a part of the bid response package.

- An Equal Employment Opportunity Compliance (EEOC) Certificate
- A General Safety Program (GSP) Notice
- A Drug free Workplace Compliance (DWC)

B. Each bid should be in a SEPARATE SEALED ENVELOPE and have typed on the envelope the INVITATION NUMBER, OPENING DATE, AND TIME. No responsibility will be attached to the Frankfort Electric & Water Plant Board for the premature opening of or failure to open a bid not properly addressed or identified. Bids must be received in the office of the Frankfort Electric & Water Plant Board, 305 Hickory Drive, P. O. Box 308, Frankfort, Kentucky, 40602, in a sealed envelope not later than the time specified for opening of bids, at which time all bids received will be publicly opened and read in the Bid Opening Room. It shall be the Bidder's responsibility that the bids are delivered to the above address no later than the time specified. Bidders are invited to attend public bid openings; also, to review complete bid files after awards have been made.

C. Bids may be rejected unless filled out in ink or typewritten and signed in ink by a proper agent of the firm.

D. Telegraphic bids, facsimile bids, or modifications of bids by telegram are not acceptable.

E. Conditional bids are not acceptable.

F. It is the responsibility of each Bidder before submitting a Bid to:

- Examine the Bid and Contract documents thoroughly.
- Consider federal, state, and local laws and regulations that may affect cost, progress, performance, or furnishing of the work.
- Study and carefully correlate Bidder's observations with the Bidding and Contract documents and notify Owner of all conflicts, errors, and/or the discrepancies.

G. All bids shall remain subject to acceptance for a period of ninety (90) days after the date of the Bid opening.

H. Retain one complete copy of the bid for your file and return original with your bid.

I. Bids may be withdrawn at any time prior to opening upon written request by the bidder. Negligence on the part of the bidder in preparing his bid shall not constitute a right to withdraw bid after it has been opened.

J. Bidders are invited to attend public bid opening; also, to review complete bid files after awards have been made.

2. BID SCHEDULE/SIGNATURE PAGE

A. Bidders should quote on the basis of units stated in this invitation. Unit price should be entered and EXTENDED. In case of error in the extension of prices, the unit price will govern. For discrepancies between figures and written amounts, precedence will be given to the written amounts.

B. Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

C. Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

D. All names must be typed or printed below the signature.

E. The Bid shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).

F. The address, telephone number and contact person for communications regarding the Bid must be shown.

3. QUALIFICATIONS OF BIDDERS

To demonstrate qualifications to perform work, each Bidder must be prepared to submit within five (5) days of Owner's request, written evidence such as financial data, previous experience, present commitments and other such data as may be called for. The Owner may make an investigation as deemed necessary to determine the ability of the Bidder to perform the work, and the Bidder shall furnish to the Owner all such information and data for this purpose, as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the Owner that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated therein.

4. AWARD OF CONTRACT

A. The Owner reserves the right to reject any and all Bids and to waive informalities or minor defects. Any Bid may be withdrawn prior to the above scheduled time for the opening of Bids or authorized postponement thereof. Any Bid received after the time and date specified shall not be considered. No Bidder may withdraw a bid within 90 days after the actual date of opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the Bidder. In the event that the lowest responsive and responsible bid is within the Owner's budget, the Contract will be awarded to the lowest responsive and responsible Bidder which, in the Owners sole and absolute judgment, will best serve the interest of the Owner

B. In determining the best responsive and responsible Bidder, the following elements will be considered:

- Lowest price
- Bidder's satisfactory performance record
- Completeness and regularity of the Bid Schedule
- Time schedule of delivery

In addition, the Owner may consider in making the determination (1) quality of equipment (or materials), (2) efficiency and environmental aspects of equipment (or materials) (3) the selection of equipment (or materials), (4) alternate equipment (or materials), and (5) deductions or other modifications listed in the Bid Schedule.

5. LAWS AND REGULATIONS

The Bidder's attention is directed to the fact that all applicable State Laws, municipal ordinance, and the rules and regulations of all authorities having jurisdiction over construction of the Project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full.

VI. SPECIFICATIONS

All material listed on this bid is item specific.

Mobi Transcoding

29 X HD 720p60 or 1080p30 resolutions with up to (6) ABR profiles

16 X SD 480p30 resolution with up to (5) ABR profiles

N+1 Chassis Redundancy

Product Description

Inca IP Video Platform

4440dvp

Inca IP Video Platform
 4440dvp, 4x Bay Modular Video Processing Chassis
 Network interface module not included. Options available for front or rear network interface module. 1x GigE Management
 Support for up to 4x Inca Transcode Modules and/or Tuner or ASI Interfaces
 2x Redundant, hot swappable AC power supplies
 4x cooling fans
 VidiOS™ award-winning monitoring with video thumbnails, statistical analysis, stream sample downloads, alarms
 * Up to 160 total IP outputs per 4440dvp chassis
 * Up to 90 total video transcodes per 4440dvp chassis

Network Interface Modules

NIC-RC-1G-4x

4x GigE rear network card for 4440dvp chassis
 One front or rear network card required per chassis
 Support up to 4x Inca transcode and/or receiver modules

Hardware Processing and Receiver Modules

VMA-XC3

Triple Processor Transcode Module
 Accepts up to 3 Transcode Stream Activation Licenses
 VidiOS™ award-winning monitoring with video thumbnails, statistical analysis,
 stream sample downloads, alarms
 Includes de-interlacing options: Weave, Bob

Inca IP Video Platform - Stream Activation Licenses

VBE-XCA-FLEX-ABR-HR-LIC	<p>ABR High Res Flex Transcode Stream Activation License, 1x License per Transcode Processor</p> <p>Flex license can be used to transcode:</p> <ul style="list-style-type: none"> * 1x HD MPEG-2/AVC -> 6x ABR MPEG-4 profiles, top output profile of 1080p30 or 720p60 * 2x SD MPEG-2/AVC -> 5x ABR MPEG-4 profiles <p>Transcode processor is configured in VidiOS™ user interface</p>
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Redundancy Options

44XX-N1	License for N+1 chassis redundancy (1 per redundant chassis)
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Audio Transport Stream Licenses

VSL-AUX-A3X-DM-LIC	<p>5.1 Dolby - Audio Transcode Codec License, per audio stream</p> <p>Each license includes one decode and one encode of an audio stream</p> <ul style="list-style-type: none"> - Decode/Downmix 5.1/Stereo/Mono Dolby AC-3/EC-3/MP2/AAC - Encode Stereo/Mono Dolby AC-3/EC-3/MP2/AAC
VSL-AUX-A3X-LIC	<p>2.0 Dolby - Audio Transcode Codec License, per audio stream</p> <p>Each license includes one decode and one encode of an audio stream</p> <ul style="list-style-type: none"> - Decode Stereo/Mono Dolby AC-3/EC-3/MP2/AAC - Encode Stereo/Mono Dolby AC-3/EC-3/MP2/AAC
VSL-AUX-DM-LIC	<p>Audio Transcode Codec License, per audio stream Each license includes one decode and one encode of an audio stream. Optionally add additional licenses to encode to additional bitrates</p> <ul style="list-style-type: none"> - Decode/Downmix MP2/AAC - Encode MP2/AAC

Annual Support and Maintenance

ASM	Annual Support and Maintenance
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ASI 8VSB to IP

**12 X 8VSB Tuner Inputs
6 X ASI
16 X HD-SD MPEG2 Downconverts**

Product Description

Inca IP Video Platform

4440dvp

Inca IP Video Platform
4440dvp, 4x Bay Modular Video Processing Chassis
Network interface module not included. Options available for front or rear network interface module. 1x GigE Management
Support for up to 4x Inca Transcode Modules and/or Tuner or ASI Interfaces
2x Redundant, hot swappable AC power supplies
4x cooling fans
VidiOS™ award-winning monitoring with video thumbnails, statistical analysis, stream sample downloads, alarms
* Up to 160 total IP outputs per 4440dvp chassis
* Up to 90 total video transcodes per 4440dvp chassis

Network Interface Modules

NIC-RC-1G-4x

4x GigE rear network card for 4440dvp chassis
One front or rear network card required per chassis
Support up to 4x Inca transcode and/or receiver modules

Hardware Processing and Receiver Modules

VMA-8VSB-4-XC2

8VSB/ClearQAM Receive and Dual Processor Transcode Module with 4x Activated Tuners

4x active 8VSB/ClearQAM tuners with 2x Transcode Processors for optional transcode

Receive full multiplexes, demultiplex all programs

IP MPTS/SPTS output of each multiplex

VidiOS™ award-winning monitoring with video thumbnails, statistical analysis, stream sample downloads, alarms

Accepts up to 2x Transcode Stream Activation Licenses

*Up to 64 direct outputs per chassis (4440dvp) from 8VSB sources

VMA-ASI-6-XC2

ASI Receive and Dual Processor Transcode Module with 6x Activated ASI Ports

6x active ASI input ports with 2x Transcode Processors for optional transcode

Receive full multiplexes, demultiplex all programs

IP MPTS/SPTS output of each multiplex

Accepts up to 2x Transcode Stream Activation Licenses

VidiOS™ award-winning monitoring with video thumbnails, statistical analysis, stream sample downloads, alarms

*Up to 64 direct outputs per chassis (4440dvp) from ASI sources

Inca IP Video Platform - Stream Activation Licenses

VBE-XCA-FLEX-MPEG2-LIC

MPEG-2 Flex Transcode Stream Activation License, 1x License per Transcode Processor

Flex license can be used to transcode:

* 2x HD MPEG-2/AVC -> MPEG-2 HD/SD

* 4x SD MPEG-2/AVC -> MPEG-2 SD

Transcode processor is configured in VidiOS™ user interface

Annual Support and Maintenance

ASM

Annual Support & Maintenance

Composite Solution

**8 X HD-SDI Encodes
6 X ASI**

Product Description

WISI Chameleon Chassis

GN 20 R	19" 1RU subrack with 2x redundant PSU and fans
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WISI Chameleon Modules

GN HWENC2S	Chameleon Encoder module - Quad MPEG 2/4 SD/HD encoder with 4x SDI /HD SDI/AV inputs
GN HWA	Chameleon Processor module with 2x fully licensed tuners for ATSC and QAM annex B

Chameleon Software Licenses

GN ASI	Option for 1x ASI in/out on BNC (processor module license)
GN STR	Option for IP streaming of up to 32 SPTS/MPTS (processor/encoder module license)

Annual Support and Maintenance

ASM	Annual Support & Maintenance
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Remote Installation and Configuration

Full remote installation, setup, and training is required. Initial setup and engineering must be in compliance with MobiTV specifications and provide ABR stream output and profile requirements.

VII. BID PRICING FORM

Item #	Quantity	Description	Unit Price	Total Price
1	6	4440dvp		
2	6	NIC-RC-1G-4x		
3	17	VMA-XC3		
4	37	VBE-XCA-FLEX-ABR-HR-LIC		
5	1	44XX-N1		
6	29	VSL-AUX-A3X-DM-LIC		
7	16	VSL-AUX-A3X-LIC		
8	90	VSL-AUX-DM-LIC		
9	4	VMA-8VSB-4-XC2		
10	2	VMA-ASI-6-XC2		
11	8	VBE-XCA-FLEX-MPEG2-LIC		
12	2	GN 20 R		
13	2	GN HWENC2S		
14	1	GN HWA		
15	1	GN ASI		
16	1	GN STR		
17	1	Full remote installation, set up and training		
	Grand Total			

VIII. SIGNATURE PAGE

We submit the prices on page 13 and agree to make delivery within _____ days after receipt of order.

This offer shall be valid for 90 calendar days from the date this bid is opened.

GRAND TOTAL WRITTEN IN WORDS: _____

SIGNED BY: _____

PRINTED NAME: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: () _____

E-MAIL ADDRESS: _____

FAX NUMBER: () _____

DATE: _____

IX. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE CERTIFICATE

A. Has your company filed the required Employer Information Report, EEO-1 (Standard Form 100) with the Secretary of Labor's Joint Reporting Committee for the prior period ending March 31?

YES

NO

If your answer to Question A above is "NO", check the following appropriate reasons for not filing:

1. Employ less than one hundred people company-wide.
2. Have specific exemption from Secretary of Labor as provided in Section 20 of Executive Order 11246, as amended.

Within Thirty (30) days after receipt of any order from the **Frankfort Electric and Water Plant Board** and prior to each March 31 thereafter, during the performance of work under said order, the undersigned firm agrees to file Standard Form 100, entitled "Equal Employment Opportunity Information Report EEO-1" in accordance with instructions contained therein, unless such firm has either filed such report within twelve months preceding the date of the award or is not otherwise required by law or regulations to file such a report.

B. In consideration of the undersigned being placed in the **Frankfort Electric and Water Plant Board's** "Supplier Document" for the year ending March 31 next, the undersigned certifies that he does not and will not maintain or provide for his employees any segregated facilities at any of his establishments and that he does not and will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The undersigned agrees that a breach of this certification is a violation of the Equal Opportunity Clause in any subcontract, contract, purchase order, or agreement that the undersigned may receive from the **Frankfort Electric and Water Plant Board**.

As used in this certification, the term "Segregated facilities" means any waiting room, work areas, rest room, and washrooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated on the basis of race, creed, color or national origin, because of habit, local custom or otherwise.

The undersigned further agrees that he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity Clause; that he will retain such certification in his files and that he will forward the following notice to his proposed subcontractors (except when the proposed subcontractors have submitted identical certification for specific time periods).

CONTRACTOR (SELLER/SUPPLIER): _____

MAILING ADDRESS / PHONE: _____

Authorized Representative's
NAME (PRINT OR TYPE): _____

Authorized Representative TITLE: _____

Dated Signature of Authorized Representative: _____

X. “NOTICE TO PROSPECTIVE CONTRACTORS OF REQUIREMENT OF GENERAL SAFETY PROGRAM”

The Frankfort Plant Board requires that all contractors operate in compliance with standards set forth by federal, state, and local regulatory agencies, including but not limited to the Occupational Safety and Health Administration, Environmental Protection Agency and Department of Transportation. To comply with the regulations set forth by these agencies it is necessary for each contractor to operate under an established safety program pertaining to the contractor's specific line of business.

The primary goal of a safety program is to protect the health and safety of employees and the public. Our goals are also to conserve and protect property and the environment. **IT IS OUR ABSOLUTE CONVICTION THAT:**

- This is a moral responsibility of each firm and worker involved.
- Safe and healthful work is more efficient, effective and inseparable from how we perform our work.
- Accidents and injuries are unnecessary costs

We accomplish work which is free from accident and injury by providing vigorous leadership that is visible through the organization.

How well we conduct our work in a hazard-free manner, according to the direction provided, is a key factor in our performance for which we are each accountable.

There are certain basic elements that are incorporated into the safety program:

- Effective management leadership from each contractor;
- Organization of a **General Safety Program**;
- On-site supervisor with authority to carry out their responsibilities including suspension of work to correct unsafe conditions;
- Proper training and supervision; and
- Employee participation

Does your organization operate under an established safety program that is in compliance with all applicable federal, state and local regulations and does this program embody the philosophies described above?

YES

NO

CONTRACTOR (SELLER/SUPPLIER): _____

MAILING ADDRESS / PHONE: _____

Authorized Representative's
NAME (PRINT OR TYPE): _____

Authorized Representative TITLE: _____

Dated Signature of Authorized Representative:

*Frankfort Electric and Water Plant Board
PO Box 308, Frankfort KY 40602*

XI. DRUGFREE WORKPLACE COMPLIANCE CERTIFICATE

PLEASE SIGN BELOW TO INDICATE: 1) Contractor is in compliance with any applicable local, state or federal laws concerning mandatory Drug and Alcohol Testing Programs; and 2) AS a term of any contract, the Contractor agrees to comply with any such drug and/or alcohol testing that may be required by law.

CONTRACTOR : _____
MAILING ADDRESS/PHONE: _____

Authorized Representative's
NAME (Print or Type): _____
Authorized Representative's TITLE: _____
SIGNATURE & DATE: _____