



**Institute of Economic Growth,  
University of Delhi Enclave, North Campus,  
Delhi-110007**

**Notice Inviting Tender**

**Dated: - 06-03-2023**

**Last Date of Submission:16-03-2023**

**1. INTRODUCTION:**

Institute of Economic Growth invites sealed quotations for the Supply and Installation of Audio Video Equipment from reputed manufacturers/authorized dealers/Channel partners.

**2. SCOPE OF TENDER:**

Item No.	Particulars	Qty.
1.	<b>Supply and Installation of Audio Video Equipment (as per technical specification attached at Sr. No. 7)</b>	PTZ Camera - 1 Digital Signal Processor - 1 Speakers - 6 Mount Kit for Camera - 1 Powered Amplifier - 2 Cables & Connectors and other accessories and Installation.

**3. CRITERIA FOR BIDDER QUALIFICATION:**

The bidder should be either an Original Equipment Manufacturer (OEM) OR Authorized Distributer/Agent of OEM and should submit proof of supplying such item in any private, Public or Government Department/Institution.

**4. GENERAL INSTRUCTIONS**

- i. The bidding document (consisting of specifications, the schedule of quantities of various types of items to be executed, the set of terms and conditions of the contract and other documents, Corrigendum, and Clarifications to Pre-bid queries can be downloaded from the websites: <https://www.iegindia.org>, if any shall be published only on this website. The institute shall not be responsible for any delay/difficulties/inaccessibility of downloading facility for any reason whatsoever.

- ii. All costs, charges & expenses that may be incurred in connection with the preparation of tender and Contract Agreement shall be borne by the bidder and the Institute accepts no liability whatsoever therefore.
- iii. Exemption to IEG against any tax/ duty/ fee/ surcharge/ charge/ cost, if any, found applicable or sought later from IEG after the award shall be passed on to IEG by the vendor without dispute.
- iv. IEG reserves the right to reject any or all of the bids without assigning any reason.
- v. Bid Validity: Bid shall remain valid for 45 days from the date of submission.
- vi. Firm Price: Bidder's quoted Rates/Prices for executing the activities under the Contract shall remain firm till the completion of the Supply and Installation of Audio Video Equipment.
- vii. If any information furnished by the bidder is found false / fabricated, then his bid will be rejected and treated as cancelled. Even if such manipulation is detected at any stage after the signing of the contract, it would lead to the termination of the contract besides the forfeit of the Earnest Money Deposit and liabilities towards prosecution. In such cases, the bidder will be debarred from participation in the future tendering process in IEG for the next 05 (Five) years.
- viii. **Earnest Money Deposit (EMD)** of the requisite amount and that in prescribed mode or proof of payment thereof shall be enclosed with the Bid as explained in Para 5.4 The Bidder must submit "UNDERTAKING BY THE BIDDER (ANNEXURE-I)" in the tender document.
- ix. **Performance Guarantee Deposit:** To ensure the due performance of the contract, **Performance Guarantee @ 15% of the value of the contract** is to be deposited by the successful bidder. Performance Guarantee may be furnished in the form of a Demand Draft / Pay order in favour of "**Institute of Economic Growth**", payable at Delhi. Cheque/ Money Order/Cash shall not be accepted. Performance Guarantee should remain valid for a period of (90) ninety days beyond the date of successful Supply and Installation of Audio Video Equipment.
- x. **Refund / Conversion of Earnest Money Deposit:** The Earnest Money received shall be refunded to the unsuccessful bidders without any interest upon executing the Contract Agreement by the successful bidder. The Earnest Money Deposit of the successful bidder shall be returned on receipt of the Performance Security Deposit.
- xi. **Forfeiture of Earnest Money Deposit:** Earnest Money Deposit will be forfeited in any of the following cases:
  - (i) The bidder withdraws/modifies his tender during the period of Bid Validity.

- (ii) The bidder, in case of a tie between the lowest bids, refuses to submit a revised offer.
- (iii) The bidder does not accept the correction of arithmetical errors in the tender.
- (iv) The bidder fails to deposit Performance Guarantee and required information within the stipulated time period before the award of the purchase order.

## 5. SUBMISSION OF TENDER

**5.1.** The sealed tenders shall be received at the Tender Box near the Reception of the Institute **up to 15:00 hrs on 16<sup>th</sup> March 2023 (Closing Date & Time for Receipt of bids)** or Corrigenda otherwise. It must be addressed to **“The Programmer, Institute of Economic Growth, University of Delhi Enclave, North Campus, Delhi-110007”**.

**5.2.** Tenders received after the due date and time shall not be considered.

**5.3.** Tenders shall be submitted in a sealed Master envelope (all 03 Envelopes in a single envelope) superscribed as **“Supply and Installation of Audio Video Equipment”** with the **File No: IEG/CU/Comp./02/2022-23**, containing three separate sealed envelopes, each clearly super scribed as **“Tender Fee and EMD”**, **“Technical Bid”** and **“Financial Bid”** respectively, in the following manner:

**5.4. Envelope-1 (Tender FEE & EMD)** will consist of:

- (i). **Tender Fee** for ₹ 5,00/- (**Non-refundable**), in the Demand Draft / Pay order in favour of **“Institute of Economic Growth”**, payable at Delhi. Cheque/ Money Order/Cash shall not be accepted. The Tender Fee & EMD deposit shall not attract any interest.
- (ii). **Earnest Money Deposit** of Rs. 10,000/- in the Demand Draft / Pay order in favour of **“Institute of Economic Growth”**, payable at Delhi. Cheque/ Money Order/Cash shall not be accepted. The Tender Fee & EMD deposit shall not attract any interest
- (iii). The Bidders registered with MSME/NSIC will be granted exemption from payment of Tender Fee and EMD as per Rule. Bidder has to enclose the MSME/NSIC Registration Certificate.

**5.5.** Tender without submission of tender fee and payment of Earnest Money Deposit would be summarily rejected except for bidders registered with MSME/NSIC.

**5.6. Envelope-2 (Technical Bid)** will consist of:

- (i). Covering letter of the offer signed by the bidder authorized signatory.
- (ii). Documents establishing the identity and authenticity of the bidder.
- (iii). Self-certified copies of all the documents in support of the eligibility of the bidder.
- (iv). Technical specification of Laptops as per description in Sr. No. 7 along with make/ model of Audio Video Equipment.

- 5.7. **Envelope-3 (Financial Bid)** will consist of the complete tender document, each page duly signed and stamped by the bidder as acceptance of the conditions, Declaration by Bidder, and **Financial Bid** all duly filled-in, signed by the bidder or his/her authorized signatory and stamped.

## 6. EVALUATION OF BIDS AND AWARD OF WORK

- i. The Bid of the bidder will be opened on the specified date and time of opening at IEG in the physical/virtual presence of willing bidders or their authorized representatives as per the decision of IEG.
- ii. Date, time and place of opening of the Financial Bid will be informed after the evaluation of the Technical Bid to the Technically Qualified Bidders as per the decision of IEG.
- iii. Bids shall, first, be checked for payment of **Tender Fee** and **Earnest Money Deposit**. Only those bids found to have duly paid/ submitted Tender Fee and Earnest Money Deposit shall be considered for evaluation.
- iv. IEG retains the right to revert back to individual bidders with further clarifications/queries on the Technical Bid. The bidder has to respond to the queries within the specified time mentioned on their company letter head.
- v. On the date & time specified for the opening of Financial Bid or the Revised Financial Bids as the case may be, the bid will be opened on the specified date and time.
- vi. **Evaluation of Financial Bids:** The Financial Bid should contain the complete bid document with duly filled-in Schedule of Financial Quote. Financial Bids opened as above will be checked for arithmetical errors.
- vii. Work order will be issued to the successful bidder.
- viii. The successful bidder will be required to submit a **Letter of Acceptance (LOA)** of the bid alongwith **Performance Guarantee @ 15% of the value of the contract** as per General Conditions of Supply and Installation of Audio Video Equipment within 7 days from the issue of the work order.

## 7. Technical Specifications

S.No	Items	Description
<b>A. Digital Signal Processor</b>		
1	Mic Line Inputs	04AEC enabled Mic/Line Inputs & 04 Line Outputs or better
2	Sampling rate	48Khz or better
3	Parametric EQ	10 band Parametric EQ or better
4	Graphic equalizer	Processing per output channel should include a 31-Band Graphic equalizer, Delay, Crossover, Limiter or better
5	Other Features	Automatic mixing console, Ducker dodger, Noise elimination, echo elimination, Feedback elimination or better; Should have Built-In Bi-directional USB for Software based Conferencing as well as for playing Digital audio or better
6	Frequency response	20Hz-20Khz or better
7	Dynamic range	120dB or better
<b>B. PTZ Camera</b>		
1	Video System	HD: 1080p30; 1080p25
2	Sensor	1/2.7 inch, CMOS
3	Optical zoom	12x zoom
4	White Balance	Auto, Indoor, Outdoor, One Push, Manual
5	Focus Mode	Auto Focus
6	Pan Speed Range	1.7° – 100°/s
7	Tilt Speed Range	1.7° – 69.9°/s
8	Digital Noise Reduction	2D & 3D Digital Noise Reduction
9	Number of Presets	Minimum 200 Presets
10	Operating Systems	Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11 MacOS, Linux
11	Input/Output Interface	Audio Interface: 1-ch: 3.5mm Audio Interface, Line In; USB Interface: 1 x USB3.0: Type B female jack; 1 x RS-232 IN: 8-pin Min DIN, Max Distance: 30m, Protocols: VISCA/Pelco-D/Pelco-P
12	Installation	Flexible Installation - Standard Mount, Upside-Down Mount
<b>C. Mount Kit for Camera</b>		
1	Mount for Camera	Camera ceiling mount, customized made easy for mounting and fixing for camera
<b>D. Speakers</b>		
1	Frequency Range (-10 dB)	60 Hz – 20 kHz
2	Frequency Response (+/-3 dB)	85 Hz – 17 kHz
3	Sensitivity	90 dB, 1W/1m (averaged 100 Hz – 10 kHz)
4	Coverage Angle	100° x 100°
5	Nominal Impedance	8 ohms (THRU setting)
6	Transformer Taps	70V: 30W, 15W, 7.5W, 3.7W 100V: 30W, 15W, 7.5W Insertion Loss
<b>E. Powered Amplifier</b>		

1	Frequency Response	20 Hz - 20 kHz, +0/-1 dB (at 1 watt)
2	Voltage Gain	29 dB
3	Input Sensitivity	(for full rated power at 8 ohms) 0.775V or 1.4V
4	Signal to Noise Ratio (A-weighted)	>100 dB
5	Damping Factor	(8 ohms, 10 Hz to 400 Hz) >200
6	Slew Rate	>10V/us
7	Input Impedance (nominal balanced, unbalanced)	20k $\Omega$ , 10k $\Omega$
8	Channels	2 each for Input/Output
<b>F.</b>	<b>Cables &amp; Connectors and other accessories as required</b>	
1	AV Cables	HDMI, Speaker Cables, LAN Cable - Reputed make Interface Cables and Connectors must be supplied to complete the system integration
<b>G.</b>	<b>Installation</b>	
1	Installation, and commissioning of the devices	The vendor shall Supply, Installation, Testing, Programming & Installation & Commissioning of equipment as per IEG. Also confirms to provide all necessary documentation for system operations, maintenance & troubleshooting.



**Parag Kamal Sharma**  
**Programmer, IEG**

पराग कमल शर्मा/Parag Kamal Sharma  
प्रोग्रामर/Programmer  
आर्थिक विकास संस्थान  
Institute of Economic Growth  
दिल्ली विश्वविद्यालय परिसर, दिल्ली-110307  
University of Delhi Enclave, Delhi-110067

**8. UNDERTAKING BY THE BIDDER (on Letter Head)**

**UNDERTAKING**

I / We have read and examined the Tender document including terms & conditions, specifications, bill of quantities, general rules & directions, General Conditions of Contract, Special Conditions of Contract and all relevant other documents, publications and rules referred to in the Conditions of Contract and all other contents in the tender documents for the work.

I / We, hereby tender for execution of the work specified for the Institute of Economic Growth, Delhi within the time specified and in accordance in all respects with the specifications and instructions in writing.

We agree to keep the tender open for 60 days from the last date of its submission and not to make any modifications in its terms and conditions. A sum of Rs. \_\_\_\_\_ has been deposited in form of demand draft/Pay Order of a scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said Director, Institute of Economic Growth, University of Delhi Enclave, North Campus, Delhi-110007 or his authorized officer shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I / we fail to commence work as specified, I / we agree that the Director, Institute of Economic Growth, University of Delhi Enclave, North Campus, Delhi shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and/or the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein.

Further, I / We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I / We shall be debarred for participation in the re-tendering process of the work.

I / We hereby declare that I / We shall treat the tender documents and other records connected with the work as secret/confidential documents and shall not communicate information derived therefrom to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

**Dated**

**Seal & Signature of Vendor  
With Postal Address**