



भारतीय कृषि अनुसंधान परिषद् का पूर्वी अनुसंधान परिसर
ICAR RESEARCH COMPLEX FOR EASTERN REGION
(भारतीय कृषि अनुसंधान परिषद् **INDIAN COUNCIL OF AGRICULTURAL RESEARCH**)

आई.सी.ए.आर. परिसर, पोस्ट-बिहार वेटनरी कॉलेज, पटना -800014 (बिहार), भारत
ICAR Parisar, P.O.: Bihar Veterinary College, Patna - 800 014 (Bihar), INDIA
फोन सं. **Phone No.(0612)2226024, 2228882*104, फैक्स सं. Fax No. 2223956, Web-site:www.icarrcer.in**

**STANDARD ONLINE (E-PROCUREMENT MODE) BIDDING
DOCUMENTS FOR SUPPLY AND INSTALLATION OF AUDIO
VISUAL SYSTEMS FOR SEMINAR HALL AND CONFERENCE
HALL OF ICAR RESEARCH COMPLEX FOR EASTERN REGION,
PATNA**

**Document to be submitted online
for
(Technical & Financial Bid as per Schedule of requirement)**

NOTICE INVITING ONLINE TENDER

File No. IRCER/17-18/P&S-20(A)/Equipment

Dated :05.02.2018

The ICAR-ICAR Research Complex for Eastern Region, Patna is a public funded Research Organization under the Indian Council of Agricultural Research, Department of Agricultural Research and Education, Ministry of Agriculture and Farmers Welfare, Government of India. The Director, ICAR-RCER, Patna, India, invites e-tenders through the website [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) under two bid systems from eligible and qualified bidders for supply of the following goods.

CRITICAL DATE SHEET

Tender ID (To be allotted by portal after uploading of tender)	
Tender Reference No.	F.No.IRCER/2017-18/P&S-20(A)/Equipment (Audio Visual System)
Date of release of Tender through e-procurement Portal	05.02.2018
Bid Submission Start Date (Online)	05.02.2018
Pre-bid Meeting Date & time	13.02.2018 (11.00 AM)
Last date for Receipt of Tender fees and EMD at ICAR-RCER, Patna	26.02.2018
Last Date & time for submission of online Bid	26.02.2018 (3:00 PM)
Date & time for opening of technical Bid	27.02.2018 (03:30 PM)
Address for Communication	The Director, ICAR Research Complex for Eastern Region, ICAR Parisar, P.O.: Bihar Veterinary College, Patna-800014

**Sd/-
Assistant Admn. Officer**

Details of Items.

Sl. No.	Name of Equipment	Quantity		Imported/Indigenous	E.M.D. to be deposited (Rs.)	Place of delivery / Installation of Goods/ Equipment
		For Seminar Hall	For Conference Hall			
A	Audio Visual System for Seminar Hall and Conference Hall			Ind	75000.00	ICAR-RCER, Patna
1	Chairman Unit	1	--			
2	Delegate Unit	16	5			
3	Central Control Unit	1	1			
4	Cordless Mike	--	2			
5	Collar Mike	--	1			
6	Audio Mixing Console	1	1			
7	HDMI Switcher	1	1			
8	Mixer Amplifier	1	1			
9	Feedback Destroyer	1	1			
10	Ceiling Speakers	4	6			
11	Laser Light Source Projector	1	1			
12	Projection Screen	1	1			
13	Full HD PTZ Camera for capturing presenter & delegates	--	1			
14	Recording & Webcasting Hardware	--	1			
15	Cabling, Connectors & Fixtures	Complete Set	Complete Set			
16	Installation and Commissioning	Complete Set	Complete Set			

IMPORTANT NOTES:-

1. Tender Documents can be downloaded from the ICAR-RCER website www.icarrcer.in or from the Central Public Procurement Portal [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) Bidders should enroll/register in the e-procurement module of Central Public Procurement Portal through the website: [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) for participating in the bidding process. Bidders should also possess a valid Digital Signature Certificate (DSC) for online submission of bids.

2. Bids received on e-tendering portal only will be considered. Bids in any other form sent through sealed cover/email/post/fax etc. will be rejected.

4. EMD defined on the Portal is MINIMUM i.e. Rs. 75,000/- (Rupees Eighty Seven fifty only) as indicated in the EMD column of the above table. The EMD should be submitted separately for each equipment. In case of offered price of equipment/instrument is less than Rs.1,00,000/-, there is no need to submit EMD (Bid Security).

5. ICAR-RCER, Patna will not be responsible for any delay in enrollment / registration as bidder or submitting /uploading the offer on e-tender portal. Hence, bidders are advised to register in e-tendering website [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) and enroll their Digital Signature Certificate and upload their quotation well in advance.

6. Any change/corrigendum/extension of opening date in respect of this tender shall be issued through websites only and no press notification will be issued in this regard. Bidders are therefore requested to regularly visit our website for updates.
7. ICAR-RCER, Patna reserves the right to accept/reject any or all the tenders in part/full without assigning any reason thereof.

Place: Patna
Date:05-02-2018

**Assistant Admn.Officer
For Director, ICAR-RCER, Patna**



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INSTRUCTIONS FOR ONLINE BID SUBMISSION

1. For Online Bid Submission as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)). The bidders are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.

More information useful for submitting the online bids on the CPP Portal is available/obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app) . Manual/offline bids shall not be accepted under any circumstances.

For Registration

2. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal ([URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)) by clicking on the link “Click here to Enroll”. Enrolment on the CPP Portal is free of charge.

3. Foreign Bidders have to refer “**DSC details for foreign Bidders**” for Digital signature Certificates requirements which comes under Download Tab at <http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page> and the remaining part is same as above and below.

4. The intending Tenderer, in case of Authorized Distributor/ Authorized Dealer shall possess valid authorized Distributorship /Dealership license from Original Equipment Manufacturers. The tenderer shall enclose the copy of the same as PDF file in Cover-I of e-tender while submitting the tender.

5. The equipment shall be in compliance with the specifications mentioned in Annexure –I of the tender and shall be of the latest technology, best quality and high standards.

6. Any optional accessories/ tooling, besides the standard equipment recommended for the better performance of the equipment, if offered, be provided with their full technical details including their use and advantage in a separate sheet with the tender documents.

7. No extra payment shall be paid on account of any discrepancy in nomenclature of items.

8. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tender stipulate any condition of his own, such conditional tender is liable to be rejected.

9. Director, ICAR-RCER, Patna, reserves the right to reject any tender/bid wholly or partly without assigning any reason.

10. The Technical Committee constituted by the Director, ICAR-RCER, Patna shall have the right to verify the particulars furnished by the bidder independently.

11. Tenderer shall take in to account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. ICAR-RCER, Patna be for quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.

12. The item should be delivered at ICAR-RCER, Patna and the supplier shall be responsible for any damage during the transit of goods.

13. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.

14. All the communications with respect to the tender shall be addressed to:

The Director, ICAR RCER, ICAR Parisar, P.O.: Bihar Veterinary College, Patna-800 014.

The Firms are also required to upload copies of the following documents :-

1) TECHNICAL BID

- (a) Scanned copy of Tender fee and Earnest Money Deposit (EMD)/its exemption, if any
- (b) Scanned copy of firm registration, PAN Card, GSTIN.
- (c) Tender Acceptance letter (Annexure-IV)
- (d) Scanned copy of Income Tax Statement for the last two years.
- (e) Scanned copy of Bank details (Annexure-II).
- (f) Authorization Certificate issued by the Principal/Manufacturing Company (OEM) authorizing the agent/dealer to participate in the instant tender. (In case the agent/dealer submits the tender application on behalf of Principal/Manufacturing Company).
- (g) A Power of Attorney (if the tender is not signed by the tenderer or the tender is submitted on behalf of the firm.)
- (h) In case of imported equipment, scanned copy of Manufacturers Authorization Certificate issued by Principal Manufacturer duly verified by the Indian Agent or Manufacturing Certificate.
- (i) Scanned copy of Make and Model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of brochures and write-ups.
- (j) Two Purchase Orders received during last three financial years for similar items.
- (k) Copy of Satisfactory Performance Certificate of Equipments in India from 02 different reputed end-users.
- (l) Minimum Annual Turnover of Rs. 20.00 lakhs during last two financial years. (To be substantiated by providing copies of Balance Sheet, Profit & Loss Statement, Cash Flow Statement, etc.)
- (m) Comprehensive Warranty of the equipment for minimum 01 year may also be mentioned in the tender documents.
- (n) Check list in compliance to specification to be uploaded (Anx.VI) duly filling Col.No.4.

2) **FINANCIAL BID**

(a) Price Bid as BoQ.xls

(b) **The bidder are advised to quote price for equipment in INR and for Indigenous equipment in INR.**

**Sd-
Assistant Admn.Officer**

TERMS AND CONDITIONS

1. The tender shall Interested bona fide and reputed firms/company/manufacturers/Indian agents (on behalf of their foreign principals) may **submit online bids for each of the above equipment** along with all requisite documents and scanned copies of **Tender Fee** (in form of Demand Draft only) of **Rs. 1,000.00 (Non-Refundable)** in favour of “ICAR UNIT-ICAR-RCER, Patna” payable at Patna.

2. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents as mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app>. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.

3. The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.

4. The rates should be quoted as per the BOQ uploaded on the CPP Portal. Taxes, if any, should be indicated separately. The bidders are advised to download this BOQ.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial Bid. The Bidder shall not tamper/modify downloaded price bid template in any manner. In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with ICAR-RCER, Patna.

5. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. The ICAR- RCER, Patna reserves the right to accept or reject any or all the tenders.

6. The firm must also possess valid PAN No., GST registration Number and a copy of the same must be uploaded in the Cover-1 of the E-tender.

7. Bid Validity: 180 days.

8. Our Institute is registered with DSIR and are exempted from Excise Duty & Custom Duty. Hence, CDEC/DSIR will be provided to the firm, if demanded. Rates should be quoted accordingly.

9. The detailed instruction for online submissions of bid(s) through e-procurement module of Central Public Procurement of NIC, the bidder(s) may visit following link: [http://eprocure.gov.in/eprocure/app?page=HelpForContractors & service=page](http://eprocure.gov.in/eprocure/app?page=HelpForContractors&service=page)

10. **Bid Security (EMD)** : The units registered with National Small Industries Corporation (NSIC) or the concerned Ministry or Department shall be exempted from the payment of Bid Security (Earnest Money Deposit) as defined under **General Financial Rules , 2017**. In such case, copy of the certificate showing registration with the above mentioned institutions to be uploaded in Cover-I of the e-tender in PDF format.

11. In case the unit is not covered as above, should submit the offer along with the **Bid Security (EMD) for the amount {in the form of Demand Draft only ,** in favour of “ICAR UNIT-ICAR RCER, Patna” payable at Patna } **mentioned against each equipment/Instrument .**

12. In the case of offered price of equipment/instrument is less than Rs.1,00,000/- (Rupees One lakh only), there is no need to submit EMD (Bid Security).

13. Tender Fee/ EMD have to be submitted to this office on or before **26.2.2018 (3:00 PM)**. Name of the Tenderer and Tender reference number has to be furnished behind the EMD/Tender Fee Demand Draft. The scanned copy of Earnest Money Deposit/Tender Fee by way of Demand Draft in PDF form should be included in Cover-I of the E-tender. The offers without bid security will be rejected.

14. The EMD will be returned to the unsuccessful bidders.

15. The EMD will be forfeited if the bidder fails to accept the order based on his/her offer/bid or fails to supply the items.

16. The successful tenderer, irrespective of its registration status, in the event of receiving award for supply for a contract value above Rs.1,00,000.00 shall have to deposit performance security at the rate of 5% (five percent) of the contract value within 15 days of receipt of confirmed Purchase Order.

17. Delivery: For Indian supply: Maximum of **four weeks** from the date of supply order
For Foreign supply: Maximum of **six weeks** from the date of supply order

18. Payment :

(A) Payment for Goods supplied from abroad:

(a) On shipment 90% of the contract price (FOR) shall be paid through Irrevocable Letter of Credit upon submission of documents detailed in L/C.

(b) 10% of the contract price (FOR) (in foreign currency) will be released after satisfactory installation/working of equipment/machine etc.

(c) The bidders may also opt Forex Demand Draft/Sight Draft mode of payment on successful supply and installation .The bidders will be intimated the copy of FDD along with confirmed Purchase Order.

(B) Payment for Goods(imported/indigenous) supplied within India:

100% of the contract price on receipt of goods by the consignee supported by satisfactory installation/working report.

19. Installation: Within 10 days from the date of receipt of equipment in the Institute falling which Liquidated damage clause shall apply.

Liquidated Damage Clause: It would be realized @0.5% (half percent) of the base price (excluding taxes) of the delayed goods for each week of delay subject to maximum 10%.

20. PRICES:-

I If any bidder wants to quote in INR, Price to be quoted on FOR, ICAR-RCER, Patna basis including all taxes.

III. Preference shall be allowed for items manufactured in India “(Public Procurement – Preference to Make in India Order 2017(PPP-MII Order)” pursuant to Rule 153(iii) of General Financial Rules,2017 in compliance to Notification/Endorsement by ICAR/Govt. of India ,Ministry of Commerce & Industry as per norms.

IV. The bidder are advised to quote price for imported equipment Multi Currency (INR) and for Indigenous equipment in INR.

V. IN CASE THE STORES PERTAINS TO IMPORT:

- a) Kindly ensure to upload (in cover-1 of e-tender) Manufacturer’s Authorization in favour of Indian Subsidiary Firm. It may also be noted that further authorization by subsidiary firm in favour of any other firm located in India to promote their sale must have authorization to an Indian firm, failing which the tender is liable to be cancelled.
- b) Price to be quoted on FOR to ICAR-RCER, Patna.
- c) The FOR price is inclusive of all incidental charges i.e. freight, forwarding and insurance etc.
- d) The clearing charges from custom house will be borne by the Indian Agent. The documents will be provided to the Indian Agent on request by ICAR-RCER, Patna.

VI. **Force Majeure**

For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier’s fault or negligence and which is not foreseeable. Such events may include, but are not restricted to, acts of the purchaser either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes, lockouts, and freight embargoes.

- (i) If a **Force Majeure Situation arises**, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof **within twenty one days** of occurrence of such event. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- (ii) If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

In case due to a Force Majeure event, the purchaser is unable to fulfill its contractual commitment and responsibility, the purchaser will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

VII. **Termination for convenience**

The purchaser reserves the right to terminate the contract, in whole or in part for it’s (purchaser’s) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the purchaser. The notice shall also indicate interalia, the extent to which the supplier’s

performance under the contract is terminated, and the date with effect from which such termination will become effective.

VIII. Resolution of disputes

If dispute or difference of any kind shall arise between the purchaser and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

If the parties fail to resolve their dispute or difference by such mutual consultation within twenty one days of its occurrence, then, unless otherwise provided in the SCC, either the purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided:

- a. When the contract is with domestic supplier, the applicable arbitration procedure will be as per Indian Arbitration and Conciliation Act, 1996.
- b. When the contract is with foreign supplier, the supplier has the option to choose either Indian Arbitration and Conciliation Act, 1996 or Arbitration in accordance with the provision of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued.

Assistant Admn.Officer



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Name of the Firm :

Tender Reference No.:

Name of the Tender/work:

Check List

Sl. No.	Details	Submitted (Yes/No)	If submitted, mention page no. Of pdf file	Remarks
1	Scanned copy of Tender fee and Earnest Money Deposit (EMD)/its exemption, if any			
2	Scanned copy of firm registration, PAN Card, GSTIN			
3	Tender Acceptance letter (Annexure-IV)			
4	Scanned copy of Income Tax Statement for the last two years			
5	Scanned copy of Bank details (Annexure-II).			
6	Authorization Certificate issued by the Principal/Manufacturing Company (OEM) authorizing the agent/dealer to participate in the instant tender. (In case the agent/dealer submits the tender application on behalf of Principal/Manufacturing Company).			
7	A Power of Attorney (if the tender is not signed by the tenderer or the tender is submitted on behalf of the firm.)			
8	In case of imported equipment, scanned copy of Manufacturers Authorization Certificate issued by Principal Manufacturer duly verified by the Indian Agent or Manufacturing Certificate.			
9	Scanned copy of Make and Model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of brochures and write-ups.			
10	Two Purchase Orders received during last three financial years for similar items			

11	Copy of Satisfactory Performance Certificate of Equipments in India from 02 different reputed end-users			
12	Minimum Annual Turnover of Rs. 20.00 lakhs during last two financial years. (To be substantiated by providing copies of Balance Sheet, Profit & Loss Statement, Cash Flow Statement, etc.)			
13	Warranty of the equipment may also be mentioned in the tender documents			

Name and Signature of the Bidder with official seal

Annexure-II



भारतीय कृषि अनुसंधान परिषद् का पूर्वी अनुसंधान परिसर
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(On the letter head of the Firm)

MANDATE FORM FOR BANKING DETAILS

Name of the Firm:

Registered /Postal Address:

1	Permanent Account Number (PAN) No.		
2	Goods & Service Tax Registration No.		
3	Bank details:		
	a	Bank Name	
	b	Branch Address	
	c	Account No.	
	d	Type of Account (Current/Savings)	
	e	MICR No.	
	f	RTGS/NEFT Code	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature



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(On the letter head of the Firm)

CERTIFICATE ABOUT NON BLACK LISTING

We.....on this date ----- do hereby

certify that our company / firm has not been blacklisted by any Government Department / Government Educational Institutions / Research Institute(s) on any grounds.

Authorized signatory of Bidder with Seal

Name -----

Designation-----

Place -----

Date -----

TENDER ACCEPTANCE LETTER
(To be given on Company letter head)

Date:

To,

The Director,
ICAR-RCER
ICAR Parisar,
P.O.:Bihar Veterinary College,
Patna-800 014

Sub: Acceptance of terms and Conditions of tender.

Tender Reference No:

Name of the tender/work:-

Dear Dir,

1. I/we have downloaded the tender documents for the above mentioned Tender/work from the website (s) namely:

as per your advertisement,, given in the above mentioned website(s).

2. I/we hereby certify that I/we have read the entire terms and conditions of the tender documents from Page No._____ to _____ (including all documents like annexure(s), schedules(s), etc.,) which form part of the contract agreement and I/we shall abide hereby the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department / organization too have also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender document (s)/corrigendum(s) in its totality /entirety.
5. I/we do hereby declare that our Firm has not been blacklisted/debarred by any Govt. Department/Public Sector Undertaking.
6. I/we certify that all information furnished by our Firm is true and correct and in the event the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason thereof or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

**Signature of the Bidder,
with Official Seal**

QUESTIONNAIRE

ONLINE BIDDERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW. IN CASE A QUESTION DOES NOT APPLY TO A BIDDER, THE SAME SHOULD BE ANSWERED WITH THE REMARK "NOT APPLICABLE". BIDDERS MAY PLEASE NOTE THAT IF THE ANSWERS SO FURNISHED ARE NOT CLEAR AND/OR ARE EEVASIVE THE BID WILL BE LAIBLE TO BE IGNORED.

1. Bid No..... Date for bid opening on.....

2. Offer is open for acceptance
.....

3. Brand of goods offered :

4. Name & address of manufacturer :

5. Station of Manufacturer. :

6. What is your permanent Income Tax A/C No.:

7. Confirm whether you have attached your latest/current ITCC or certified photocopy thereof.

8. Status :

(a) Are you a small scale unit currently registered with the National Small Industries Corporation (NSIC) under Single Point Registration Scheme for the items(s) quoted ? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.

(b) If you are not registered either with NSIC , please state whether you are currently registered with Directorate of Industries of the State Government concerned. If so indicate the date up to which you are registered and whether there is any monetary limit on your registration.

(c) Are you registered under the Indian Companies Act, 1956 or any other Act?

Please attach certified copy(copies) of the relevant registration certificate(s) in confirmation to you above answer(s).

9. Please indicate

Name & Full address of your Banker(s):

10. Whether you are :

i) Manufacturer of the goods quoted; or

ii) Manufacturer's authorized agent for those goods.

11. State whether business dealings with you have been currently banned by any Ministry/Deptt. Of Central Govt. or any State Govt.:

Signature of Witness

Name & address of Witness

Signature of Bidder

Full name, designation & address of
the person signing above For and on
behalf of Messrs.

.....
Name & address of bidding firm)

Name of the equipments: Audio Visual Systems

Specifications:

1	Chairman Unit	
	Should built-in 2.5 inches high-fi loudspeaker and electrets Condenser stem microphone, Gooseneck microphone with illuminating red ring to indicate speaking status, Chairman Unit can be linked anywhere within the chain, Chairman features having “Priority” speak button to override delegate and the alarm sound when delegate-off, Loudspeaker is automatically switched off when the microphone is activated to prevent acoustic feedback, Auto-Test functionality, Digital Series- parallel daisy-chain connected. Even though one of them is failed, just removes the failed one and then re-connected, the functionality still works perfectly. Microphone length should be 17" to22"	
	Frequency response	100HZ~16KHZ
	Sensitivity	$\geq -50\text{dB}$
	Total Harmonic distortion	$\leq 0.1\%$
	S/N ratio	$\geq 70\text{dB}$
	Operating Voltage	DC 12V~18V
	Build-in speaker Unit	size:2.5"
	Capacity	0.5W
	Max sound pressure:	$\geq 92\text{dB}$,
	Speaking Indicator Lamp	Illustrated Red Ring Light,
	Connection:	1* 9P D type plug, for system link 9P cable (2.5M & 12M),
	AGC (Auto Gain Control)	45 ~0dB,
	Earphone jack	3.5Ø Stereo,
	Base:	Zinc-Aluminium Alloy Diecast & Anti-slip mat
	Top:	ABS special plastic

2	Delegate Unit	
	Should a built-in 2.5 inches high-fi loudspeaker and electrets Condenser stem microphone, Gooseneck microphone with illuminating red ring to indicate speaking status, Loudspeaker is automatically switched off when the microphone is activated to prevent acoustic feedback, Auto-Test functionality, Digital Series- parallel daisy-chain connected. Even though one of them is failed, just removes the failed one and then re-connected, the functionality still works perfectly. Microphone length should be 17" to 22"	
	Frequency response	100HZ~16KHZ
	Sensitivity	$\geq -50\text{dB}$
	Total Harmonic distortion	$\leq 0.1\%$
	S/N ratio	$\geq 70\text{dB}$,
	Operating Voltage	DC 12V~18V,
	Build-in speaker Unit	size:2.5",
	Capacity	0.5W
	Max sound pressure:	$\geq 92\text{dB}$,
	Speaking Indicator Lamp	Illustrated Red Ring Light,
	AGC (Auto Gain Control)	45 ~0dB,
	Earphone jack	3.5Ø Stereo,
	Base:	Zinc-Aluminium Alloy Diecast & Anti-slip mat
Top:	ABS special plastic	

3	Central Control Unit	
	3-chain outputs for daisy connection with each link can be linked up to min 30 delegate units, 4x20 digits LCD screen displays conference mode, microphone's volume and other conference settings, Control unit should have the RS-232 and Rs-485 interface for the programming purpose for Auto Tracking of Cameras. System should have the facility to be able to connect the cameras for look at me feature through required hardware or software and should have the facility of audio video recording of conference.	
	Frequency response :	100HZ~16KHZ
	T.H.D.	$\leq 0.5\%$
	S/N Ratio	$\geq 90\text{dBV}$
4	Cordless mike should be compatible with the system	
5	Collar mike should be compatible with the system	

6 Audio Mixing Consol			
I/O	Inputs	TOTAL 10ch : Mono (MIC/LINE): 4, Stereo(LINE): 3	
	Phantom power	CH1, 2 : +30 V	
	Outputs	SPEAKERS [L, R] MONITOR OUT [L,R] SUBWOOFER OUT	
	Control and others	FOOT SW : Effect Mute on/off	
	Bus	Stereo: 1 Effect: 1	
Input Channel Function	PAD	26 dB (CH1-4)	
	Hi-Z	Supported (CH4)	
	EQ HIGH	8kHz +15dB / -15dB	
	EQ MID	2.5kHz +15dB / -15dB	
	EQ LOW	100Hz +15dB / -15dB	
On-board processors	DSP	SPX Algorithm Reverb 4 programs, MASTER EQ (SPEECH to MUSIC), Feedback suppressor	
On-board amplifiers	Maximum output power @4ohms	1kHz THD+N less than 10% (CEA2006) : 250 W + 250 W, 1kHz THD+N less than 1% :110W + 110W	
	Maximum output power @8ohms	1kHz THD+N less than 10% (CEA2006) : 170 W + 170 W, 1kHz THD+N less than 1% : 110W + 110W	
	Level Meter	6points (-20, -6, 0 , +3, +6, LIMITER)	
General specifications			
Frequency response	Input to SPEAKERS	+1 dB/-4 dB (40Hz to 20kHz)	
	Input to MONITOR OUT	+0.5 dB/-1.5 dB (20Hz to 20kHz) refer to the nominal output level @ 1 kHz	
Total harmonic distortion	Input to SPEAKERS	0.2 % @ 13.8 W (40Hz to 20kHz), 0.4 % @ 23.2W (1kHz),	
	Input to MONITOR OUT	0.05 % @ +10 dBu (20Hz to 20kHz) 0.009 % @ +20 dBu (1kHz), (THD+N, Measured with 22 kHz LPF)	
Hum & noise level	Equivalent input noise	-115 dBu	
	Residual output noise	Input to SPEAKERS : -68 dBu (40Hz to 20kHz, MASTER: min), Input to MONITOR OUT : -99 dBu (20Hz to 20kHz, MONITOR: min)	
	Crosstalk	-80 dB (1 kHz, Measured with 1 kHz band pass filter)	
Protection circuit	Load protection	DC-fault	
	Amplifier protection	Over heat protection, Over current protection	
	Power requirements	AC 100-240V, 50Hz/60Hz	
	Power consumption	35W (Idle) / 90W (1/8 Power)	

7	HDMI Switcher	
	Video Input	
	Interfaces	4 x HDMI Type A Female (Black)
	Impedance	100 Ω
	Max. Distance	1.8 m
	Video Output	
	Interfaces	2 x HDMI Type A Female (Black)
	Impedance	100 Ω
	Max. Distance	15 m
	Video	
	Max. Data Rate	6.75 Gbps (2.25 Gbps Per Lane)
	Max. Pixel Clock	225 MHz
	Compliance	HDMI (3D, Audio Return Channel, Deep Color)
		HDCP Compatible
		Consumer Electronics Control (CEC)
	Max. Resolution	Up to 1080p
	Max. Distance	Up to 15 m
	Audio	
	Input	4 x HDMI Type A Female (Black)
	Output	Analog: 2 x RCA (Red / White)
		Digital: 1 x HDMI Type A Female (Black); 1 x Toslink (Black); 1 x RCA (Orange)
	Control	Connector: 1 x DB-9 Female (Black)
		Baud Rate and Protocol
		Baud Rate: 19200, Data Bits: 8
		Stop Bits:1, Parity: No, Flow Control: No
	IR	1 x Mini Stereo Jack Female
	EDID Settings	EDID Mode: Default / Port1 / Auto
	Power	Connector: 1 x DC Jack
		Consumption: 5.3 VDC, 6.95W

8	Mixer Amplifier	
	Power out Put	250 Watts
	Low Frequency	±10dB at 100Hz
	High Frequency	±10dB at 10kHz
	Mic Inputs	6 nos
	Aux inputs	2 nos
	Line input	1 no
	Preamp	1 no
	Line Out	4Ω/8Ω & 70/100 V
	Frequency Response	50-15, 000 Hz ±3 dB
Signal to Noise Ratio	≥70 dB	

9	Feedback Destroyer	
	<u>Audio inputs</u>	
	Connections:	XLR and 1/4" TRS stereo connector
	Type:	electronically balanced input
	Input impedance:	approx. 20 kΩ balanced
	Nominal input level:	-10 dBV / +4 dBu (adjustable)
	Max. input signal level	+20 dBu at +4 dBu nominal level, +6 dBV at -10 dBV nominal level
		typically -40 dB
	<u>Audio outputs</u>	
	Connections	XLR and 1/4" TRS stereo connector
	Type	balanced
	Output impedance	approx. 200 Ω balanced
	Max. output level	+20 dBu at +4 dBu nominal level, +6 dBV at -10 dBV nominal level
	<u>Bypass</u>	
	Type	Relay, hard bypass in case of Power outage
	<u>System information</u>	
	Frequency response	<10 Hz to 44 kHz
	Dynamic range	107 dB
	THD	0.007 % typically @ +4 dBu, 1 kHz, amplification 1
	Crosstalk	< -100 dB @ 1 kHz
	<u>MIDI interface</u>	
	Type	5-pole DIN connectors IN/OUT/THRU
	<u>Digital processing</u>	
	Converter	24 Bit / 96 kHz
	Sample rate	96 kHz
	<u>Parametric equalizer (PEQ)</u>	
	Type	max. 20 independent, fully parametric filters per channel
	Frequency range	20 Hz to 20 kHz
	Bandwidth	1/60th to 10 octaves
	Possible value range	+15 to -36 dB
	<u>Feedback Destroyer (FBQ)</u>	
	Type	digital signal analysis for feedback recognition purposes

	Filter	max. 20 digital notch filters per channel
	Frequency range	20 Hz to 20 kHz
	Bandwidth	1/60th octave
	Possible value range	0 to -36 dB
	<u>Display</u>	
	Type	3-digit numeric LED display
	<u>Power supply</u>	
	Mains voltage	100 - 240 V~, 50 - 60 Hz
	Power consumption	approx. 10 W
	Fuse	T 1 A H 250 V
	Mains connector	Standard receptacle

10	Ceiling Speakers with 6"+1.5" Coaxial Ceiling speaker with ABS cover ABS baffle & back cover, metal grill	
	Input impedance	8ohms, 100V and tapping at (2W/4W / 6W)
	Rated Input	40Watts (Max)
	Frequency Response	90-20kHz
	SPL	> 102 dB
	Max Sound	106dB
	Tapping	Multiple tapping

11	Laser Light Source Projector		
	Display System	3 LCD System	
	Light Source	Laser Diode	
	Brightness	5,000 Lumens	
	Resolution	WUXGA – 1920 x 1200	
	Aspect Ratio	16:10	
	Lens Shift	Manual: Vertical +20% to +55%	
		Manual: Horizontal +/- 10%	
	Keystone Correction	Vertical: +/- 20 degrees	
		Horizontal: +/- 30 degrees	
	Lens Throw Ratio	1.27:1 to 1.88:1	
	Screen Size	40" to 300" Diagonal	
	Contrast Ratio	500000:1	
Max. Video Signal Input Resolution	NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i		
Max. Computer Signal Input Resolution	WUXGA – 1920 x 1200		
Colour System	NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60		
Inputs	RGB x 1		
	HDMI x 2		
	Video x 1		
	HD Base T x 1		
	Audio x 1		
Outputs	Audio x 1		
Control / Other Interfaces	RS232Cx 1		
	LAN RJ45 x 1		
	USB Type-A x 1		
	USB Type-B x 1		
Speaker	16 W x 1		
Wi-Fi Presentation	Wi-Fi Presentation Ready through optional Dongle		
Automatic Filter Cleaning	Automatic Filter Cleaning every 100 hours		

12	Motorizes Projection Screen	
	Fabric	Matt White
	Remote Control	RF
	Manual control	In-Line Switch
	Viewing Area	1143x2032mm
	Digonal Size	92
	Aspect Ratio	16:09

13	Full HD PTZ Camera for Capturing Presenter & Delegates	
	Sensor	1/2.8" 2MP CMOS
	Video Output	1080p 60/ 59.94/ 50/ 30/ 29.97 fps
		1080i 50 / 60 fps
		720p 60 / 50 fps
		NTSC / PAL
	Optical Zoom	10x
	Panning Angle	-170° ~ +170°
	Tilting Angle	-30° ~ +90°
	Preset Positions	128
	Video Output(HD) Interface	DVI-I, Ethernet
	Video Output(SD) Interface	CVBS (C-Video)
	Network Interface	ONVIF/RTSP Streaming/RTMP Streaming
	Camera Control Interface/Protocol	RS-232 / RS-422 / Ethernet
	Video S/N Ratio	> 50dB
	Shutter Speed	1/1 ~ 1/10,000 sec
	Focal Length	f = 5 mm ~ 50 mm
	Horizontal Viewing Angle	56.5°
	Aperture	F1.8 ~ 3.0
	Minimum Illumination	1.0 lux (F1.8, 50IRE, 30fps)
	Minimum Object Distance	100 mm (Wide) ~ 1000 mm (Tele)
	Gain Control	Auto, Manual
	Exposure Control	Auto, Manual
	Focus System	Auto, Manual
	Image Flip	Yes
	Weight	Less than 2000 gm

14	Recording & Webcasting Hardware	
	Video Inputs*	HDMI/ VGA/ RJ-45
	Max. Video-In Channels	Minimum 4 channel synchronized recording
		HDMI/ VGA/:2 channels Full HD network camera:4 channels
	Video-In Modes	HDMI: 480i~1080p/60fps
		VGA Video: 480i~1080p/60fps
		VGA PC: 640*480~1920*1080
	Audio Inputs	Line in, Mic
	Max. Audio-In Channels	3.5mm Stereo: 2 channels
	Video Processing-Compression	H.264/ AVC
	Frame Rate	Max. 30fps
	Video Processing-Bit Rate	64Kbps~24Mbps
	Resolution	Max. 1080p
	Audio Processing-Compression	AAC-LC
	Audio Processing-Bit Rate	32Kbps~512Kbps
	External Storage	USB / eSATA
	Internal Storage	Built-in 1TB hard disk (Only for VS-LC102)
	Locally Stored File Output Format	MP4
	Support Format	Output : RTP, RTMP
	Streaming Format	Output : RTP, RTMP

Main Output Mode (Max.)	HDMI / VGA : 1080p/60fps
Display Layout	Full screen/ picture-in-picture/ multi-channel split screen, upto 9 layouts
Recording Layout	Multi-View streaming, up to nine layouts
Index (keyword tagging)	Automatic and manual index insertion
Auto Logo Insertion	Yes, through web-based back stage management setting
During Recording	
Share live streaming from CaptureVision Station	Yes, Multicast
Webcasting	Support Youtube Live, UStreaming, Adobe Media server
Local File Playback	Yes
Select by Index	Yes, browse playable content through knowledge point index
View course content on any device	Yes
Post Lecture Editing	Yes, through web-based back stage
Post Index Points Editing	Yes, through web-based back stage to add and delete index points
Auto Logo Title and Ending Insertion	Yes, through web-based back stage to insert logo title and endings when exporting lecture video
Remote Control	Yes, included with purchase
External Control	Yes, supports RS-232 interface port
Power Supply	12V/ 2A
Temperature / Humidity	0~45°C / 90%
Station Control	Web-based back stage
Language	English
Accessories	Remote control/power adapter/quick guide
OEM authorization for sales and after sales support for 7 years for availability of spare parts of supplied equipment in the name of Director, ICAR, Patna.	

Instructions for Online Bid Submission

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <http://eprocure.gov.in/eprocure/app>.

REGISTRATION:

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link “Click here to Enroll” on the CPP Portal is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective “My Tenders” folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.

2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Space” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

1. Bidder should login to the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. The Bidder has to select the payment option as “Offline” to pay the tender fee/ EMD as applicable and enter details of the instrument.
4. The Bidder should prepare the EMD as per instructions specified in the tender document. The Original should be posted / couriered/ given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. A standard BoQ format has been provided with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bid in the format provided and no other format is acceptable. The bidders are required to download the BOQ file, open it and complete the white coloured (unprotected cells with their respective financial quotes and other details (such as the name of the bidder) No other details should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the file name. If the BOQ file found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders“ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bid sis maintained using the secured Socket Layer128 bit encryption technology. Data storage encryption of sensitive fields is done.
8. The uploaded tender documents must become readable only after the tender opening by the authorized bid openers.

9. Upon the successful and timely submission of bids)i.e. after Clicking “Freeze Bid Submission: in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.

ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1204200462

General Instructions to the Bidders

1. The tenders will be received online through portal <http://eprocure.gov.in/eprocure/app>. In the Technical Bids, the bidders are required to upload all the documents in pdf format.
2. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for registration and participating in the bid submission activities through <https://eprocure.gov.in/eprocure/app>. Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the website <https://eprocure.gov.in/eprocure/app> under the link “Information about DSC”.
3. Tenderer are advised to follow the instructions provided in the “Instructions to the Tenderer” for the e-submission of the bids online through the Central Public Procurement Portal for e- Procurement at <http://eprocure.gov.in/eprocure/app>

KIND ATTENTION: FOR TAKING ASSISTANCE, IF ANY
CPP Portal website: www.eprocure.gov.in

Assistant Admn.Officer