



K.K. Handiqui State Open University

Head Office: Patgaon, Rani, Guwahati - 781017

Tender Ref. No. KKHSOU/Multimedia/58/2010/PART/427

Tender

Sealed tenders are invited from authorised manufacturers/dealers for the Design, Development and Implementation of Multimedia Studio on SITC basis. For details visit our website www.kkhsou.in

The quotations should reach the undersigned on or before 04.03.2021.

Sd/-
Registrar



Krishna Kanta Handiqui State Open University

Tender Document for Design, Development and Implementation of Multimedia Studio on SITC basis

Tender enquiry No.KKHSOU/Multimedia/58/2010/PART/427 Dated 11/02/2021

Krishna Kanta Handiqui State Open University
H.O. Patgaon Rani Gate, Guwahati-781017
City Office: Resham Nagar, Khanapara, Guwahati-781022
Tel. 0361-2235971 Email. info@kkhsou.in

NOTICE INVITING TENDER

Annexure-I

Date: _____

Sub: Notice Inviting Tenders for Design, Development & Implementation of Multimedia Studio

Krishna Kanta Handiqui State Open University, Guwahati invites sealed Tenders from reputed Manufacturers/ Authorised Dealers /Bidders dealing with studio solution, acoustics, broadcast equipment and turnkey solution provider for design, development & implementation of Two (2) Multimedia Studio and one (1) PCR on supply, installation, testing and commissioning (SITC) basis.

All Installation Material to complete the studio setup along with cable, connectors. Any other item required to complete the SITC of the Studio need to be quoted. The Quantity and material is suggestive only. To complete the SITC any other equipment required to be quoted separately.

The work will be done in 2 phases:

Phase 1: Design, Development & Implementation of one Multimedia studio of size as below:

L : 26.25 ft
B : 21 ft
H : 9.25 ft + 1 ft

The work to be done is as follows:

- A) Soundproofing & Acoustic Treatment
- B) Hanging 360 degree rotation Lights with Frame
- C) Cabling and wiring.
- D) Interactive Display system
- E) Teleprompter
- F) Fixed Chroma arrangement

Phase 2: Design, Development & Implementation of a Multimedia studio with Production Control room.

Size of the Multimedia Studio :

L : 34ft
B : 26ft
H : 21.3 ft + 1 ft

Size of Production Control Room :

L : 30ft
B : 19.75ft
H : 9.25 ft + 1ft

The work to be done in the studio are as follows:

- A) Soundproofing & Acoustic Treatment
- B) Hanging 360 degree rotation Lights with Frame
- C) Cabling and wiring
- D) Discussion forum
- E) Teleprompter
- F) Flexible Chroma arrangement

The work to be done in the PCR are as follows:

- 1) Soundproofing & Acoustic Treatment
- 1) Cabling and wiring
- 2) Editing and post production facility
- 3) Audio monitoring system
- 4) Vision mixture/switcher for multi camera edit : 1 No.
- 5) Camera control unit
- 6) Audio interface/ soundcard
- 7) Appropriate furniture
- 8) Wired Lapel Microphone : 3 Nos
- 9) Professional Headphone : 2 Nos.
- 10) Intercom

All interested vendors are requested to send their sealed quotation for supply of the above item as per details technical specification given in **Annexure-VII**. The general terms and conditions and other details for bidders are at Annexure- **I to IX**.

Details of tender are as follows:

Tender Reference No.	KKHSOU/Multimedia/58/2010/PART
Last Date and Time for receipt of Tender	04/03/2021 before 4.00 pm
Time and Date for Opening of Bid	Will be declared later on in the University Website
Tender Fee (non refundable)	Rs. 1,000/-
EMD (refundable but non-interest bearing)	2.5% of the quoted value
Contact Telephone Numbers	0361- 2235971, 2235642
For technical Details Contact through E-mail	info@kkhsou.in

The Tender document and details of terms and conditions can be downloaded from our website www.kkhsou.in

The bid proposals are to be sent in **three separate** sealed envelopes **(i) Technical Bid (ii) Financial/Price Bid (iii) Tender Fee and EMD kept in one sealed envelope duly superscribed with Tender Reference No. and Tender Notice detail as appended hereunder:**

TENDER FOR SUPPLY OF FURNITURES	
TENDER REF.	
NO _____	DATE: _____
LAST DATE FOR SUBMISSION: _____	
To,	
The Registrar	
K. K. Handiqui State Open	
University, City Office, Resham	
Nagar, Khanapara	
Guwahati - 781022	
From: M/s -----	
Contact No: -----	
E-mail ID: -----	

Annexure II

General Terms and Condition:

1. Krishna Kanta Handiqui State Open University, Guwahati hereinafter is referred as "BUYER" and Tenderer is referred as "BIDDER", hereby invites tenders from suppliers confirming specifications of tender documents.
2. Any new taxes and duties liable on the subject contract due to change in legislation during the contract period shall be reimbursed subject to the applicability of the said Act to the satisfaction of the buyer and the production of documentary evidence after availing of statutory concession, benefits etc.
3. The supplier shall pay and bear all other liabilities, taxes and duties not specifically agreed by the Buyer in the contract.
4. **The bids submitted without Tender Fee will be summarily rejected** and no further communications in this regard will be entertained. The university reserves the right to cancel/reject any or all bids without assigning any reason thereof.

ELIGIBILITY CRITERIA:

- a) The Bidder should have Local Office at Assam or North East for Last 4 Years
- b) The Bidder should be ISO Certified.
- c) The Bidder should be MSME Registration Certified.
- d) The Bidder should have at least 2 support Manpower for Technical Items.
- e) The Bidder should have experience working with Govt. of Assam or any N.E States. Poof which should be submitted along with the bid
- f) The Bidder should submit Local Office Trade License and GST Registration along with the bid
- g) The bidder should submit OEM MAF wherever is asked in the Technical Specifications
- h) The bidder has to attend the support call within 24 hrs. after registration of the problem
- i) The bidder should have labor license in Assam
The bidder should have at least 3 crore Annual Turnover for three years
- j) The successful bidder will be considered to L1 for entire BOM. Splitting of Bid is not allowed
- k) Income tax return document is to be submitted.

SUBMISSION OF OFFER:

1. The Quotation MUST BE ENCLOSED IN A SEALED COVER super scribing Tender Number / due date & should reach the undersigned on or before due date mentioned in the tender notice. If the quotation cover is not sealed, it will be rejected.
2. Before the deadline for submission of the bid, the Institute reserves the right to modify the bidding document and to extend or not to extend the date of

submission. Such amendment/modification will be notified to bidders receiving the bidding document in writing or by cable/fax/ email and will also be hosted on the Institute website.

3. Conditional Tenders will be summarily rejected.
4. A bidder may withdraw, substitute, or modify its bid after it has been submitted by sending a written notice signed by the authorized signatory before the date of submission of the bid. Any re-submission or modification in the bid should be submitted before the date & time of submission of bid as originally conveyed in the invitation of bid.
5. No bid may be withdrawn, substituted or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Bid Form or any extension thereof.
6. **PRICE BID MUST BE SUBMITTED IN ENCLOSED PRICE BID FORMAT ONLY (at Annexure VII).**
7. Tender should be submitted in the Tender Box in the office of the Purchase Section. No tender is to be handed over to our staff personally unless otherwise specified. All communications are to be addressed to the undersigned only. In case due date happens to be holiday the tender will be accepted and opened on the next working day.
8. Quoting of Price (s):
Price quoted should be in Indian Currency, free delivery at University Campus at site (for Indigenous products only)
9. **Quantity:** The quantity shown in the tender can be increased or decreased to any extent depending upon the actual requirement.
10. **Other Govt. Taxes:** GST/Other Govt. Taxes: GST, other taxes, levies, etc., are to be indicated separately. BIDDER should mention the GST Registration. PAN Number is to be necessarily indicated in the offer.
11. **Delivery:** The successful BIDDER should have to design, develop and implement as per tender document/purchase order. The successful bidder should emboss stickers of Purchase Order number on the items. The BIDDER shall indicate the best and shortest possible delivery period for the supply of the complete machines/equipment from the date of placement of order. A bar chart indicating various activities from the placement of order to commissioning of the machine shall be furnished.
12. Indian Agent should submit the certificate from the Foreign Principal that they are the Authorized & Registered Indian Agent. Otherwise submit dealership certificate of the offered product.
13. Optional items, if any, should be quoted in separate sheet otherwise your quote will be rejected.

EARNEST MONEY DEPOSIT (EMD):

1. While submitting bid, the BIDDER shall deposit an amount mentioned in tender document as Earnest Money, with the Institute through the following instruments:
 - (i) A crossed Bank Draft in favour of "Registrar, KKHSOU Payable at Guwahati" shall be submitted separate sealed envelope along with the quotation.
 - or
 - (ii) A confirmed Bank Guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the University shall be treated as conclusive proof of payment.
2. The Earnest Money shall be valid upto a period of 180 days or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.
3. No interest shall be payable by the BUYER to the BIDDER on Earnest Money for the period of its currency.
4. In case of successful BIDDER, EMD will be returned within 30 days from the date of submission of Security deposit.
5. SSI/NSIC units are exempted for submitting EMD as per GOI order. Such firms are requested to submit the cost of tender which shall not be considered for exemption. SSI/ NSIC registration certificate in support of the claim to be attached to the bid mandatorily, failing which offer shall be rejected.
6. EMD of a Tender will be forfeited, if the bidder withdraws or amends or modified in tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Further, if the successful bidder fails to furnish the required Security Deposit within the specified period and does not comply with PO terms and fails to deliver the stores, its EMD will be forfeited.

SUPPLEMENTARY /MODIFIED OFFER: Tender submitted against Notice Inviting Tender shall not be returned in case the tender opening date is extended/postponed. BIDDER desirous to modify their offer/terms may submit their revised/ supplementary offer(s) within the extended Tender Opening Date (TOD) by clearly stating to the extent of updating done to the original offer. The Institute reserves the right to open the original offer along with the revised offer.

CANCELLATION OF TENDER: Not withstanding anything specified in this tender document, University in its sole discretion, unconditionally and without assigning any reasons, reserves the rights:

- a) To accept OR reject lowest tender or any other tender or all the tenders.
- b) To accept any tender in full or in part.
- c) To reject the tender offer not confirming to the tender terms.
- d) To give purchase preference to Public Sector Undertakings whenever applicable as per Govt. Policy/ Guidelines.

TERMS OF PAYMENT:

- (i)
- (a) Payment within 30 days from the date of completion of work as per order and Acceptance Certificate of concerned Department / Section / Stores & Purchase Section.
 - (b) Payment shall be made by electronic fund transfer offered by the Bank.
 - (c) Octroi Charges/Entry Tax: The Institute will issue form 402 (E-Way Bill) on request basis on submission of Tax Invoice.
- (ii) **Security Deposit (SD):** Security Deposit shall be furnished in the form of Demand Draft (DD) or Bank Guarantee (BG) from a Scheduled Commercial Bank operating in India. In case of SD, it should be in the prescribed format as per Annexure-V in favour of **Registrar, KKHSOU Guwahati**, to be submitted along with order acknowledgement. The SD should be valid for a period of **60 days** beyond the date of completion of installation, commissioning and all contractual obligation of the supplier including the free warranty period. **Alternatively, 10% of the bill value will be retained against Security Deposit and will be released after the period stated above.**
- (iv) **Liquidated Damages (L.D):** (a) If a firm fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to this Institute to recover liquidated damages for delay in delivery and Installation from the firm at the rate 0.5% of the value of the stores per week subject to a maximum of 10% of the total order value. The L.D charges can be increased in case of gross violation of the Purchase Order terms as decided by the Vice Chancellor of the University.
- (b) It will also be open to this University alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the firm, which accepted the order but failed to execute the order according to stipulated agreed upon.

VALIDITY OF THE OFFER: 180 Days from the date of submission of offer.

EVALUATION OF OFFER:

1. The University will evaluate technical and commercial acceptable offers on landed net price basis.
2. Offer which deviates from the vital conditions (as illustrates below) of the tender shall be rejected:
 - a. Non submission of complete offers.
 - b. Receipt of offers after due date and time and or by email / fax (unless specified otherwise).
 - c. Receipt of offers in open conditions.
3. In case any BIDDER is silent on any clauses mentioned in this tender document, The University shall construe that the BIDDER had accepted the clauses as per the invitation to tender.

4. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
5. The Buyer shall correct arithmetical errors on the following basis:
 - (i) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Buyer there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.
 - (ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - (iii) If there is a discrepancy between words & figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.
6. Where the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.
7. The University reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of the University, the quantities in the contract may be enhanced by 30% within the delivery period.
8. **REASONABILITY OF PRICES:**
 - a) **The quoting party should give a certificate to the effect that** the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to the Institute to any other customer nor they will do so till the validity of offer or execution of the purchase order, whichever is later.
 - b) Copies of **at least last three supply orders of the last 3 years** received from other customers along with details of such supply orders preferably in Govt. organisation for the same item/model **must be submitted with the offer if they have any**, giving reasons of price difference of their supply order & those quoted to us, if any. Non-submission of such Purchase Order copies may lead to rejection of their bid.
 - c) The party must give details of identical or similar equipment, if any, supplied to any University during last three years along with the final price paid and Performance Certificate from them.
 - d) A client list along with the satisfactory installation certificate of similar equipment supplied to Govt./ Semi govt./ reputed private Institute must be submitted, without which their offer may not be considered for evaluation and rejected.

SPECIFICATION AND SAMPLE

The suppliers shall supply and install the items in accordance with the specifications/ descriptions given in the acceptance of tender. **The Buyer reserved the rights to alter the description of items given in the acceptance of tender.** In the event any such alteration results in any implication to the deliver and price, such implication shall be mutually agreed between the Buyer and Supplier. In case certified sample has been issued by the Buyer and the specifications also exist in the acceptance of tender then the certified sample will govern the supply.

TRANSFER AND SUBLETTING: The seller shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Buyer.

FORCE MAJEURE: Force Majeure will be accepted on adequate proof thereof.

PACKING: The suppliers shall be responsible for the material being properly packed for the transport by Road/Air/Sea (as the case may be) so as to ensure there being free from lost or damage or arrival at destinations.

INSTALLATION: The Bidder should install the software in the machines without any additional cost.

LEGAL MATTER: All Domestic and International disputes are subject to Guwahati Jurisdiction Only.

**Dy.Registrar/Asst. Registrar
KKHSOU**

(To be printed on Supplier's letterhead)

INTEGRITY PACT

General

This pre-bid pre-contract Agreement hereinafter called the Integrity Pact is made on..... day of the month of , between, on one hand, the Registrar, KKHSOU Guwahati hereinafter called the “BUYER” of the first part and M/s.....represented by ShriDirector/Chief Executive Officer/ General Manager hereinafter called the “BIDDER/Seller” of the second part.

WHEREAS the BUYER proposes to procure(Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Autonomous Body/Department of the Government of Assam performing its functions in Assam.

NOW, THEREFORE, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to enabling the BUYER to obtain the desired said stores / equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

- 1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.
- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

- 1.3 All the officials of the Buyer will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official (s) is reported by the BIDDER to the BUYER, with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS :

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, consideration, gift, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government.

3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

3.4 BIDDERS shall disclose the payments to be made by them to agents / brokers or any other intermediary, in connection with this bid/contract.

3.5 The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/ integrator/ authorized government sponsored export entity of the defiance stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitator in any way to recommend to the BUYER, or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed

to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender. The term relative for this purpose would be as defined in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India, that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money Deposit

5.1 The BIDDER shall deposit an amount as Earnest Money after selection with the Institute through the following instruments:

A confirmed Bank Guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without

any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the Institute shall be treated as conclusive proof of payment.

5.2 The Earnest Money shall be valid upto a period of 180 days or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3 No interest shall be payable by the BUYER to the BIDDER on Earnest Money for the period of its currency.

5.4 In case of successful BIDDER, EMD will be returned within 30 days from the date of submission of Performance Bank Guarantee/Security Deposit.

6. **SECURITY DEPOSIT /PERFORMANCE GUARANTEE:**

6.1 Security Deposit/Performance Bank Guarantee is mandatory.

6.2 Successful tenderer/ bidder should submit performance guarantee as prescribed above to be received in the office of Dy. Registrar, Stores & Purchase Section on or before 30 days from the date of issue of order acknowledgement. The performance bank guarantee to be furnished in the form of Bank Guarantee as per Annexure-V of the tender documents, for an amount covering 10% of the purchase order value.

6.3 The Performance Bank Guarantee should be established in favour of “**Registrar, KKHSOU**” through any Bank situated at Guwahati or outstation with a clause to enforced the same on their local branch at Guwahati

6.4 Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful tenderer and the buyer under the terms and conditions of acceptance to tender.

6.5 The successful tenderer is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the terms and conditions and specification and all other documents referred to in the acceptance of tender.

6.6 Bank guarantee against Security Deposit shall be kept valid during the period of contract and shall continue to be enforceable for a period of two years from the date of order acknowledgement.

7. **Sanctions for Violations**

7.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:

- (i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance guarantee/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of two years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this pact by the BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bank Guarantee in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

7.2 The BUYER will be entitled to take all or any of the actions mentioned at para 7.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

7.3 The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent monitor(s) appointed for the purposes of this pact.

8. **Fall Clause**

The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India or PSU and if it is found at any stage that similar product/system or subsystem was supplied by the BIDDER to any other Ministry/Department of the Government of India or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

9. **Independent monitors**

9.1 The BUYER has appointed Independent Monitors (hereinafter referred to as Monitors) for this pact.

9.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.

9.3 The Monitor shall not be subject to instructions by the representatives of the parties and performs their functions neutrally and independently.

9.4 Both the parties accept that the Monitor have the right to access all the documents relating to the project/procurement, including minutes of the meetings.

9.5 As soon as the Monitor notices, or believes to notice, a violation of this pact, he will so inform the Authority designated by the BUYER.

9.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all project documentation⁶² of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.

9.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

9.8 The Monitor will submit a written report to the designated Authority of BUYER/ Secretary in the Department within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

10. **Facilitation of Investigation**

In case of any allegation of violation of any provisions of this pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary

information & documents in English and shall extend all possible help for the purpose of such examination.

11. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and Jurisdiction is the Seat of the BUYER.

12. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

13. Validity

13.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/ Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

13.2 Should one or several provisions of this pact turn out to be invalid, the remainder of this pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

14. The parties hereby sign this Integrity Pact.

BUYER
Registrar, KKHSOU
seal
Date & Place

BIDDER
Signature with
Date & Place

Witness

Witness

1. _____

1. _____

2. _____

2. _____

FORMAT FOR EARNEST MONEY DEPOSIT / BID SECURITY

(To be typed on Non-judicial stamp paper of the value of Indian Currency of One Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE NATIONALISED BANKS (WHETHER SITUATED AT GUWAHATI OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GUWAHATI OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT GUWAHATI. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED)

LETTER OF GUARANTEE

To,
Registrar,
KKHSOU
Patgaon, Rani, Guwahati - 781017

IN ACCORDANCE WITH YOUR TENDER for supply of, M/S (hereinafter called the "Bidder") having its Registered Office at wish to participate in the said bid for the supply as an irrevocable Bank Guarantee against Earnest Money Deposit for an amount of Rs. (Rupees) valid upto (180 days from the date of issue of Bank Guarantee), is required to be submitted by the bidder as a condition precedent for participating in the said bid, which amount is liable to be forfeited by the Buyer on (1) the withdrawal or revision of the offer by the bidder within the validity period, (2) Non acceptance of the Letter of Indent / Purchase order by the Bidder when issued within the validity period, (3) failure to execute the contract as per contractual terms and condition within the contractual delivery period and (4) on the happening of any contingencies mentioned in the bid documents.

During the validity of this Bank Guarantee:

We,(Bankname) having its Registered Office at.....guarantee and undertake to pay immediately on first demand by.....the amount of Rs.....(Rupees.....)without any reservation, protest, demur and recourse. Any such demand made by the University shall be conclusive and recourse. Any such demand made by the buyer shall be binding on the Bank irrespective of any dispute or difference raised by the Bidder.

The Guarantee shall be irrevocable and shall remain valid up to(180days from the date of issue of Bank Guarantee) If any further extension is required, the same shall be extended to such required period on receiving instruction form the Bidder, on whose behalf the is Guarantee is issued.

Notwithstanding anything contained herein

- i. Our liability under this Bank Guarantee shall not exceed Rs.....(Rupees.....) .
- ii. This Bank Guarantee shall be valid up to(date).
- iii. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or before..... (date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office atsituated at (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of guarantee period.

Annexure V**FORMAT FOR PERFORMANCE BANK GUARANTEE**

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred)

(TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GUWAHATI OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GUWAHATI OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT GUWAHATI. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,
Registrar,
KKHSOU
Patgaon, Rani, Guwahati - 781017

LETTER OF GUARANTEE

WHEREAS Krishna Kanta Handique State Open University, Guwahati (Buyer) have invited Tenders vide Tender No..... Dt.for purchase of ANDWHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment /machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **“Registrar, Krishna Kanta Handique State Open University, Guwahati”** in the form of Bank Guarantee for Rs and valid till **two years** from the date of issue of Performance Bank Guarantee may be submitted within 30 (Thirty) days from the date of acceptance as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this bank shall pay to Krishna Kanta Handique State Open University, Guwahati on demand and without protest or demur Rs (Rupees.....).

This bank further agrees that the decision of Krishna Kanta Handique State Open University, Guwahati (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Krishna Kanta Handique State Open University, Guwahati (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs. (Indian Rupees only).
2. This Bank Guarantee shall be valid up to(date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if University serve upon us a written claim or demand on or before(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at
(Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

PREVIOUS SUPPLY ORDERS FORMAT

Name of the Firm:

Order placed by { <i>Full address of Buyer</i> }	Order No. and Date	Description And quantity of Ordered Equipment	Value of order	Date of completion of delivery as per contract	Date of actual completion of delivery	Remarks indicating reasons for late delivery, if any and jurisdiction for price difference of their supply order & those quoted to us.	Has the equipment been installed satisfactorily? <i>(Attach a certificate from the Buyer/ Consigner)</i>	Contact person along with telephone No. , Fax No., E mail address

Signature and Seal of the Manufacturer/ bidder

Place:

Date:

TECHNICAL BID (All the information is to be supported by necessary documents as indicated in the previous pages)

General Information

1. Name of the Bidder
2. Full Address of the Bidder with Pin Code, Telephone number, Fax number, e-mail address
3. Local Address of the Bidder, (if any) with Pin Code, Telephone number, Fax number, E-mail address
4. Registration with concerned Government bodies
5. Company Registration (in case of Private Limited or Limited company)
6. Registered deed of partnership (in case of partnership)
7. Trade License
8. GST Certificate
9. PAN Card
10. Annual Turn Over in last 3 years (should not be less than Rs.3 crore per year)
11. Supporting documents for experience of minimum 5 years.

Tender Format-1**PRICE BID
(For Indigenous Items)****Tender Reference No.:****Date:****Phase 1**

Sl. No.	Name of the Item	Technical Specifications and Desirable Features	Quantity	Unit Rate	Amount
1	Soundproofing and Acoustics	<p>WALL</p> <p>DESCRIPTION</p> <p>Providing and Fixing 'wood wool panel made of Pine Wood Fibre Magnesium composites 15mm thick Natural Standard of size 1220 x 610mm. Has excellent noise absorption of 0.87 NRC as per ISO: 354-1985 and ASTM 423-90 a, Density 400 Kg/ m3, meets stringent Fire Ratings ASTM D-876 and Fire Class - 1 as per BS 476 part 5 and 6, Class P-not easily ignitable as per BS-476-Part 5 (Ignitability for material). This is applicable for core and class 1 as per BS 476-Part 7 (Method for classification of surface spread of flame) , weather resistance as per IS 3308, Thermal Insulation as per IS:3346 with relative humidity of 90% RH at 60°Celsius(140° Fahrenheit) for 15 days= No deterioration. Conforms to En 13168 and are RoHS Complaint. The panel is to be screw fixed @200mm vertically/ horizontally on G.I. metal frame @610mm c/c. G.I. frame work will comprise of GI metal stud of size 48mm & 0.55mm thick having one flange of 34mm & other 36mm placed at 610mm c/c vertical into 50mm floor & Ceiling channel of 0.55mm thickness having 2 equal flanges of 32mm each, then fixing GI metal stud at 610mm c/c horizontally making a grid of 610 x 610mm c/c. The panel will be backed with 25mm Polyester fibre 1000GSM inserted inside the grid of 610x 610mm.</p> <p>Fab stretch system : includes screw fixed 13mm PVC grippers (Full wrap/Center/half wrap) @200mm on Fibrecrete acoustic panels vertical / horizontal with proper line & level over 50 x 10mm ply strip. Fabric will be</p>			

		<p>stretch inside the grippers.</p> <p>CEILING: Natural Premium</p> <p>Providing and Fixing '' tiles made of Wood Fibre 1mm width Magnesite binded 15 mm Natural Premium (BLACK) of size 595 x 595 mm backed with 510 sentetic. As per ISO: 354-1985 and ASTM 423-90 a, Density 400 Kg/ m3, meets stringent Fire Ratings ASTMD-876 and Fire Class -1 as per BS 476 part 5 and 6, Class P-not easily ignitable as per BS-476-Part 5 (Ignitability for material). This is applicable for core and class 1 as per BS 476-Part 7 (Method for classification of surface spread of flame) , weather resistance as per IS 9307, Thermal Insulation as per IS:3346 with relative humidity of 90% RH at 60°Celsius(140°Fahrenheit) for 15 days= No deterioration. Conforms to IS 3308 & En 13168 and are RoHS Compliant. To be installed on T24 grid system of 0.6mm thick Main 'T' length minimum 3000mm, web minimum 35mm to be placed at 600mm center to center and secondary cross 'T' of length 600mm web minimum 35mm inter locked, Wire Support for Main T to be taken at every 1200mm length wise and 600mm width wise. Frame work should be in perfect line & level.</p> <p>FLOOR</p> <p>8mm foam with 6 mm carpet on the floor covering entire area.</p> <p>Providing and fixing 26oz. Loop pile carpet with precision tufted loop piles and underlay of 5mm thick PU foam fized to existing levelled floor with synthetic adhesives as approved by the manufacturer.</p> <p>Single Door</p> <p>3.5ft x 6.5ft Door dimension. Thickness - 65-67mm. Both sides Laminated.S&F Acoustic doors with mirandi wood, 19mm plyboard with both sides rockwool 50mm thick density 48Kg/Cum & including door accessories, hinges, Chokhat, door closure fixed in opening exc 2 to 4 Sqm complete all as specified & directed.</p> <p>Double Door</p> <p>5ft x 6.5ft Door dimension. Thickness - 65-67mm. Both sides Laminated.S&F Acoustic doors with mirandi wood, 19mm plyboard with both sides rockwool 50mm thick density 48Kg/Cum & including door accessories, hinges, Chokhat, door closure fixed in opening exc 2 to 4 Sqm complete all as specified & directed.</p>			
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b.	Hanging 360 degree rotation Lights	<p>2 X 55 W complete with lamps, Barn door, Gel Frame, C-clamp, power cable, powder coated with Black heat resistant paint, Manual and DMX5120 TO 100% Dimming control 5-pin input output XLR connectors 220/240V 50/60HZ Input</p> <p>150W Fresnel Spot Light with High power bright COB Mount LED having daylight color temperature controls onboard and with DMX Light controls, 4-leaves Barn door, Yoke, Power cord, C-clamp with safety chain.</p> <p>Light Point Wiring from Patch Panel to be provided near stage to various stage light fixtures with 1.5 Sq.mm 3 Core PVC Insulated and PVC Sheathed Cable including of suitable size for laying these wires including 15 amps suko sockets with box at top. ISI MARK CABLE</p> <p>Telescopic Tripod Stand Extension Rods (3-8feets) DMX XLR Cable Connector Accessories</p> <p>DMX splitter 8 channel for ensure maximum safety and DMX signal distribution. The DMX splitter provided on DMX input and Minimum Six Buffered output, the connections are through 3 pin XLR</p> <p>Stage 1024 controller ,1024 DMX Channel, 2x512 channel, control 96 Intelligent Lights with Up to 40 channel Each; consenting of sub master separate pages' manual controls with 2 sub master ,1 master fader, blinkers switches, effects control, DMX output and soft patch to 512 channels, LCD menus, HTP Control, provision for controlling intelligent lights etc.</p>			
3.	Cabling and wiring	As required			
4.	Interactive Display system	Annexure-1			
5.	Teleprompter	<p>Professional 15" Teleprompter Minimum 1000 nit high bright monitor High-quality American made 70/30 beam splitter glass Screen readable from up to 17' Easy to install 15" talent monitor Multiple camera mounting options Easy balancing with adjustable base Lightweight and compact design Ships in reusable foam for easy</p>	1		

		transport Monitor supports image flip PrompterPro software for MAC & PC should be FREE with the teleprompter HDMI, composite and VGA			
6.	Fixed Chroma arrangement	Chroma arrangement is as per design made up of ITrack for complete length with Trollies uniformly distributed along the track at every 200/250mm. All metal parts are powder coated with black texture finish paint. (Size: 8 mtr x 4 mtr) Chroma Cloth made up of wool surge material provided with green colour duly stitched and having eyelets at every 200mm for hanging and side tying. (Size: 8 mtr x4 mtr)			

Phase-2 :

A. Multimedia Studio

Sl. No.	Name of the Item	Technical Specifications and Desirable Features	Quantity	Unit Rate	Amount
1	Soundproofing and Acoustics	<p>WALL</p> <p>DESCRIPTION</p> <p>Providing and Fixing 'wood wool panel made of Pine Wood Fibre Magnesium composites 15mm thick Natural Standard of size 1220 x 610mm. Has excellent noise absorption of 0.87 NRC as per ISO: 354-1985 and ASTM 423-90 a, Density 400 Kg/ m³, meets stringent Fire Ratings ASTM D-876 and Fire Class - 1 as per BS 476 part 5 and 6, Class P-not easily ignitable as per BS-476-Part 5 (Ignitability for material). This is applicable for core and class 1 as per BS 476-Part 7 (Method for classification of surface spread of flame) , weather resistance as per IS 3308, Thermal Insulation as per IS:3346 with relative humidity of 90% RH at 60^o Celsius(140^o Fahrenheit) for 15 days= No deterioration. Conforms to En 13168 and are RoHS Complaint. The panel is to be screw fixed @200mm vertically/ horizontally on G.I. metal frame @610mm c/c. G.I. frame work will comprise of GI metal stud of size 48mm & 0.55mm thick having one flange of 34mm & other 36mm placed at 610mm c/c vertical into 50mm floor & Ceiling</p>			

		<p>channel of 0.55mm thickness having 2 equal flanges of 32mm each, then fixing GI metal stud at 610mm c/c horizontally making a grid of 610 x 610mm c/c. The panel will be backed with 25mm Polyester fibre 1000GSM inserted inside the grid of 610x 610mm.</p> <p>Fab stretch system : includes screw fixed 13mm PVC grippers (Full wrap/Center/half wrap) @200mm on Fibrecrete acoustic panels vertical / horizontal with proper line & level over 50 x 10mm ply strip. Fabric will be stretch inside the grippers.</p> <p>CEILING: Natural Premium Providing and Fixing ‘ ‘ tiles made of Wood Fibre 1mm width Magnesite binded 15 mm Natural Premium (BLACK) of size 595 x 595 mm backed with 510 synthetic. As per ISO: 354-1985 and ASTM 423-90 a, Density 400 Kg/ m3, meets stringent Fire Ratings ASTM D-876 and Fire Class -1 as per BS 476 part 5 and 6, Class P-not easily ignitable as per BS-476-Part 5 (Ignitability for material). This is applicable for core and class 1 as per BS 476-Part 7 (Method for classification of surface spread of flame) , weather resistance as per IS 9307, Thermal Insulation as per IS:3346 with relative humidity of 90% RH at 60°Celsius(140°Fahrenheit) for 15 days= No deterioration. Conforms to IS 3308 & En 13168 and are RoHS Compliant. To be installed on T24 grid system of 0.6mm thick Main ‘T’ length minimum 3000mm, web minimum 35mm to be placed at 600mm center to center and secondary cross ‘T’ of length 600mm web minimum 35mm inter locked, Wire Support for Main T to be taken at every 1200mm length wise and 600mm width wise. Frame work should be in perfect line & level.</p> <p>FLOOR 8mm foam with 6 mm carpet on the floor covering entire area. Providing and fixing 26oz. Loop pile carpet with precision tufted loop piles and underlay of 5mm thick PU foam fixed to existing levelled floor with synthetic adhesives as approved by the manufacturer.</p> <p>Single Door</p>			
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		<p>3.5ft x 6.5ft Door dimension.Thickness - 65-67mm. Both sides Laminated.S&F Acoustic doors with mirandi wood, 19mm plyboard with both sides rockwool 50mm thick density 48Kg/Cum & including door accessories, hinges, Chokhat, door closure fixed in opening exc 2 to 4 Sqm complete all as specified & directed.</p> <p>[Installation of Door is Included] Double Door</p> <p>5ft x 6.5ft Door dimension.Thickness - 65-67mm. Both sides Laminated.S&F Acoustic doors with mirandi wood, 19mm plyboard with both sides rockwool 50mm thick density 48Kg/Cum & including door accessories, hinges, Chokhat, door closure fixed in opening exc 2 to 4 Sqm complete all as specified & directed.</p>			
2.	Hanging 360 degree rotation Lights	<p>2 X 55 W complete with lamps, Barn door, Gel Frame, C-clamp, power cable, powder quoted with Black heat resistant paint, Manual and DMX5120 TO 100% Dimming control 5-pin input output XLR connectors 220/240V 50/60HZ Input</p> <p>150W Fresnel Spot Light with High power bright COB Mount LED having daylight color temperature controls onboard and with DMX Light controls, 4-leaves Barn door, Yoke, Power cord, C-clamp with safety chain.</p> <p>Light Point Wiring from Patch Panel to be provided near stage to various stage light fixtures with 1.5 Sq.mm 3 Core PVC Insulated and PVC Sheathed Cable including of suitable size for laying these wires including 15 amps suko sockets with box at top. ISI MARK CABLE</p> <p>Telescopic Tripod Stand Extension Rods (3-8feets)</p> <p>DMX XLR Cable Connector Accessories</p> <p>DMX splitter 8 channel for ensure maximum safety and DMX signal distribution. The DMX splitter provided on DMX input and Minimum Six Buffered output, the connections are through 3 pin XLR</p> <p>Stage 1024 controller ,1024 DMX Channel, 2x512 channel, control 96 Intelligent Lights with Up to 40 channel</p>			

		Each; consenting of sub master separate pages' manual controls with 2 sub master ,1 master fader, blinkers switches, effects control, DMX output and soft patch to 512 channels, LCD menus, HTP Control, provision for controlling intelligent lights etc.			
3	Cabling	As required			
4.	Discussion Forum	As required			
5.	Teleprompter	Minimum 1000 nit high bright monitor High-quality American made 70/30 beam splitter glass Screen readable from up to 17' Easy to install 15" talent monitor Multiple camera mounting options Easy balancing with adjustable base Lightweight and compact design Ships in reusable foam for easy transport Monitor supports image flip PrompterPro software for MAC & PC should be FREE with the teleprompter HDMI, composite and VGA	1		
6.	Flexible Chroma screen and arrangement	Size: 16 X 9 feet			

B. Production Control Room

Soundproofing and Acoustics should be done as per the sizes mentioned at Annexure-I. Specifications to be made as mentioned in the studio at Phase-2

Other requirements are attached as Annexure-2

- 1) Delivery Mode: Free Delivery at KKHSOU site.
- 2) **Total Bid price should be inclusive of all taxes and levies, transportation, loading, unloading, etc.(Should be shown separately)**
- 3) Validity Date: Maximum 180 days from the date of opening of technical bid.
- 4) Payment Term: Payment within 30 days from the date submission of bill / Acceptance Certificate to KKHSOU H.O. / Concerned Department

PAN No.:
GST Registration No.:
Signature:
Name:
Bank Address:
Affix Rubber Stamp:

Place:
Date:

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

To
The Registrar,
Krishna Kanta Handique State Open University
Patgaon, Rani,
Guwahati – 781017

Sub: Authorization for release of payment / dues from Krishna Kanta Handique State Open University, Guwahati through Electronic Fund Transfer/RTGS Transfer.

1. Name of the Party/Firm/Company/Institute:

2. Address of the Party:

City _____ Pin Code _____

E-Mail ID _____ Mob No: _____

Permanent Account Number(PAN) _____

3. Particulars of Bank:

Bank name		Branch Name	
Branch Place		Branch City	
PIN Code		Branch Code	
MICR No.			
(9 digit number appearing on the MICR Bank of the Cheque supplied by the Bank, Please attach a Xerox copy of a cheque of your bank for ensuring accuracy of the bank name, branch name and code number)			
IFS Code: (11 digit alpha numeric code)			
Account Type	Savings	Current	Cash Credit
Account Number			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Registrar, KKHSOU, Guwahati responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date: _____

Signature of the Authorized Official from the Bank

N.B: Please fill in the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable

Interactive Display System:-

Supply, testing, commissioning of Touch interactive Flat Panel Display with accessories. Touch Interactive display with built in speakers , GUI for ease access and wireless presentation system. Should be supplied with all standard accessories. This has to be installed in Conference room to make conferencing and also for in room presentations

Tender Specification Description	Tender Specification Requirement
Touch Interactive Flat Panel Display	
Display	
Active Screen Size ("inch)	75"
Display Backlight	DLED
Display Area	1652*930mm
Display Ratio	16 : 9
Resolution	3840*2160 or better
Display Colors	10 bit or better
LCD Brightness	>450cd/m2 or better
Contrast Ratio (Typical)	15000:1 or better
Response Time (Typical)	4ms or better
Viewing Angle	178°
Life time (working hours)	>50,000 hours or better
Display Orientation	Landscape
Reference Frequency	120Hz or better
Speakers	
Speakers	Should be SEAMLESSLY build-in the display
Max.Power Output	2x15 Watts or above
Speaker Position	Seamlessly mounted in lower side of the display. Front facing, Forward through
Rated Impedance	8Ω
Freq.Response	180Hz-20kHz
Touch	
Touch Technology Deployment	Touch feature should be seamlessly build-in the display and NO overlay is allowed
Touch Sensor	Infrared Touch
Surface material of touch surface	Anti-Glare Glass
Protection	3M antiglare
Haze	2%~5%
Touch Screen Writing Tools	Nano Pen (>3mm width) included or Finger
TOUCH Response time	≤4ms or better
Positioning Accuracy	±1mm or better
Transmission Range	5M
Transparency	>88% or better
Surface Hardness	H7 or More than H7

HID Support	Must have a provision to connect with any external sources
Touch Points in Windows	Must have a touch capability of MINIMUM 20 points
Touch Points in Embedded OS	Must have a touch capability of MINIMUM 10 points
Writing Tool	Shall use with Nano Pen (>3mm width) included or Finger
Scan Speed	133Hz or better
Communication Interface	Inbuilt - USB
Ports	
Requirement of Front access ports with flip	For the purpose of ease access the display must have the following ports
Minimum required Input ports at Front side of the display	1 x HDMI(1.4 , 4K@30Hz):- To connect with any resources 1 x Exclusive USB1 for Touch :- To connect with any resources and operate 2 x Exclusive USB for Media Play function:- To directly view the contents from USB 1 x Microphone(3.5mm):-To connect any external microphone
Minimum Requirement of AV Inputs at rear side	HDMIx1(2.0,4K@60Hz) + USB for Touch Port 1 while using HDMI port HDMIx2 (2.0,4K@60Hz)+ USB for Touch Port 2 while using HDMI port DPx1 (4K@60Hz)+ USB for Touch Port 3 while using Display port VGAx1 (1920x1080@60Hz) + USB for Touch Port 4 while using VGA port
Minimum requirement of AV Outputs at rear side	HDMIx1(4K@60Hz)- Transmit the signal to other display with equipment with High definition 3.5mm Line out x 1 DC Out (5V 2A) x1 SPDIF out x 1
Minimum Requirements for other ports at rear side	USB 2.0 x2 : - To directly view the contents from USB RS232 x1 :- Device Controlled by any third party controller RJ45 x1 :- Input port of Local area network RJ45 x1 :- Output port of Local area network
Remote Control	
Technology	Infrared
Battery Type	AAA Cell
Smart System / On Board System	
Multimedia File Formats Supported	Support all major types of multi-media files
GUI - Graphic User Interface	The display must have GUI for ease access of resources, functions and shortcuts. This GUI shall be any proprietary OS but must be computable with Android coding.
Discussion / White Board	Build-in white board (seamless writing) with inbuilt browser
	A wireless presentation software comes with inbuilt for inroom presentation
Other features	The onboard system supports....Annotation, saving and send email of annotation files and selecting the inputs and changing the volume , Scheduling function for meeting room schedules , Buildin wifi(2.4G/5G) and so on
Smart Eye production	Smart Eye Protact keep your eye vision safe from IFPD's light

Blue light filter	Blue light contributes to digital eye strain; IFPD's glasses that block blue light may increase comfort for users
RAM	3GB or higher
ROM	16GB build in or higher
External Memory	32GB TF card (build in) or higher
Total In-built Memeory	48GB (Inbuilt TF Card slot support max 64GB) or higher
Android Version	8.0.0 or higher
Android resolution	4K
OPS PC (4K)	
Generation	7th Generation
CPU	i5-7200U
GHZ	3M Cache, up to 2.80 GHz
RAM	4G *2
SSD	128G SSD
HDD	1 TB HDD
TPM	2.0
MIC	3.5mm*1
HDMI	1; HDMI 1.4 4K@24HZ
Line out	3.5mm*1
USB 2.0	2
USB 3.0	2
1000 Mbit/ RJ45	1
Build-in Wifi	1
OPS interface	TX24A support 4K@60HZ
OS	Win 10 Pro English
Transportation/Storage	
Working Voltage	AC 100-240V, 50/60Hz
Power Consumption	Maximum ≤400W Standby Mode ≤0.5W
Transportation/Storage	
Storage Temperature/Humidity	-15°C~55°C/20~90%RH(Non coagulation)
Working Temperature/Humidity	0°C-40°C/20~80%RH(Non coagulation)
Mounting Capabilities	Display must have facility to mount on floor stand or wall brackets
Features and Applications Touch Interactive Display	
Inbuilt Soft features	The touch interactive display must have inbuilt onboard writing software. Thus, this software shall has
	The display must have the facility of send the written contents by mail, take printout and transfer to pen drive as well

	This software which is embedded in the On-Board system shall have capability to write(Annotate) on top the contents that are shown from Pen drive direct / External PC / Any such sources
External software	Touch interactive display shall also be supplied with specialised software which shall be installed in PC/Laptop. This software should have features of different writing capabilities like Pen, Highlighter, laser pen, geometric pen, text pen and so on. The software shall also have features of Screen record, screen capture, import files, export files and saving the content in different versions and so on.
Inbuilt Internet access	The touch interactive display must have inbuilt WiFi (2.4G/5G). So that the presenter shall visit the internet to show/access the content/information even without PC/LAPTOP
Floor Mount Kit	
Suitable floor mount kit with accessories	Equipment has to be supplied with suitable wall mount kit and accessories
Installation	Horizontal installation
Mandatory Requirements	
Manufacturer	The Manufacturer must have office in India and proof the same shall be furnished
Manufacturer's authorization	The bidder must submit the authorization certification

B. Production Control Room

SI No.	Descriptions	Specifications		Quantity	Compliances (YES / NO)
1.	Supply, Installation, Testing of HD/SD PTZ Video Camera			3	
		Video format	1080p 59.94/50/29.97/25 1080i 59.94/50 720p 59.94/50 480i, 576i (on CVBS)		
		Image Sensor	1/2.8" type progressive scan CMOS sensor or better		
		Effective Pixels (approx.)	2.14 Mega pixels or better		
		S/N Ratio	Minimum 50dB		
		Min. Illumination	Color : 0.4 lx B/W : 0.03 lx (F1.6, 1/30 sec, 50IRE, Gain: High)		
		Electronic Shutter	1/25~1/1250 sec (50/25Hz) 1/30~1/1500 sec (59.94/29.97Hz)		
		Zoom Ratio	30x Optical Zoom or higher		
		Gamma Control	Off / Normal / Standard Mode 1-4		
		Iris Control	Auto / Manual		
		Zoom Ratio	30x Optical Zoom		
		Digital Noise Reductions	Yes		
		On-Screen Display (OSD)	English		
		White Balance	AWB, MWB, One push WB, Outdoor, Indoor, Fluorescent		
		AGC / Gain Control	Auto / Manual		

			Max. Gain Limit		
		Mirror / Flip Image	Yes		
		Focus Mode	Auto / Manual		
		Panning / Tilting Range	Pan: 270° , Tilt: +90° to -20°		
		Panning / Tilting Speed	Manual: 1~150°/Sec Swing: 1~150°/Sec		
		Preset	50 Position		
		Focal Length	f=4.3 mm (WIDE) to 129 mm (TELE) F1.6 to F4.7		
		Field of View (Horizontal, Wide)	Approx. 63.7° (WIDE END) / 2.3° (TELE END)		
		Image Compensation	Day & Night Function		
		Video Output	3G-SDI x1 HDMI x1 CVBS x1		
		Tally LED	Dual color (Red, Green)		
		Filter	M52.0 x 0.75 Thread with UV Protection		
		Protocol	VISCA, DVIP		
		Remote Control Interface and Transmit Distance	RS-422: Transmit up to 1000m DVIP (RJ45): 100m		
		F/W Update	USB		
	Authorization		Tender Specific OEM Authorization required		
2.	Supply, Installation, Testing and Commissioning of Camera Remote Control Panel			1	
		Maximum Camera	24 or more		

		Control			
		Present (Position)	7 for each camera or more		
		Control Protocol	DVIP, DHCP client		
		Connection to Cameras	RS-422, Ethernet		
		Input/output	USB 2.0 x2 10/100Mbps Ethernet (RJ-45 connector) x1 RS-422 (RJ-45 connector) x1		
		Build-in Control Panel	Size: 5" Resolution: 1280 x 720		
		Maximum Camera Control	24		
	Authorization		Tender Specific MAF required from OEM		
3.	Supply, Installation, Testing, Commissioning of 8 Ports POE Switch			1	
4.	Supply, Installation, Testing, Commissioning of Dual Band Wi-Fi Router			1	
5.	Supply, Installation, Testing, Commissioning of Tripod for Camera and Teleprompter			3	

6.	Supply, Installation, Testing, Commissioning of Up / Down / Cross Converter			2	
		Conversion	VGA/HDMI/SDI to HDMI/SDI Multi-format Up/Down/Cross		
		Video Inputs	1x VGA, 1x HDMI, 1x 3G/HD/SD-SDI (support Level A and Level B)		
		Loop Through	Yes		
		Video Outputs	2x 3G/HD/SD-SDI with embedded Audio (support Level A and Level B) 1x HDMI		
		Audio Inputs	2x RCA (Stereo Pair), 2x SDI/HDMI Audio embedded		
		Audio Outputs	SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio		
		Supported Video Input Formats	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080psf(23.98/24/25/29.97/30Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 576p, 576i, 525i, 480p, 480i, 1920x1080(60Hz), 1280x720(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1024x768(60Hz), 800x600 (60Hz)		
		Output Resolutions	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 525i		
		Equalizer	Yes		
		Reclock	Yes		
		SDI Cable Drive	Yes		
		Conversion	VGA/HDMI/SDI to HDMI/SDI		

			Multi-format Up/Down/Cross		
		Video Inputs	1x VGA, 1x HDMI, 1x 3G/HD/SD-SDI (support Level A and Level B)		
		Loop Through	Yes		
		Video Outputs	2x 3G/HD/SD-SDI with embedded Audio (support Level A and Level B) 1x HDMI		
		Audio Inputs	2x RCA (Stereo Pair), 2x SDI/HDMI Audio embedded		
		Audio Outputs	SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio		
		Supported Video Input Formats	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080psf(23.98/24/25/29.97/30Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 576p, 576i, 525i, 480p, 480i, 1920x1080(60Hz), 1280x720(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1024x768(60Hz), 800x600 (60Hz)		
		Output Resolutions	1080p(23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 625i, 525i		
		Equalizer	Yes		
		Reclock	Yes		
		SDI Cable Drive	Yes		
	Authorization		Tender Specific OEM Authorization required		

7.	Supply, Testing, Commissioning ofSDI to VGA Converter			2	
		Conversion	3G/HD/SD-SDI to VGA		
		Video Inputs	1x 3G/HD/SD-SDI		
		Loop Through	Yes		
		Video Outputs	1x VGA		
		Supported Video Input Formats	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)		
		Output Resolutions	1920x1200 (60Hz), 1920x1080(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1280x800 (60Hz), 1024x768 (60Hz), 800x600 (60Hz)		
		Equalizer	Yes		
		Reclock	Yes		
		SDI Cable Drive	Yes		
		Conversion	3G/HD/SD-SDI to VGA		
		Video Inputs	1x 3G/HD/SD-SDI		
		Loop Through	Yes		
		Video Outputs	1x VGA		
		Supported Video Input Formats	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)		
		Output Resolutions	1920x1200 (60Hz), 1920x1080(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1280x800 (60Hz), 1024x768 (60Hz), 800x600 (60Hz)		

		Equalizer	Yes		
		Reclock	Yes		
		SDI Cable Drive	Yes		
		Conversion	3G/HD/SD-SDI to VGA		
		Video Inputs	1x 3G/HD/SD-SDI		
		Loop Through	Yes		
		Video Outputs	1x VGA		
		Supported Video Input Formats	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)		
		Output Resolutions	1920x1200 (60Hz), 1920x1080(60Hz), 1600x1200(60Hz), 1400x1050(60Hz), 1366x768(60Hz), 1280x1024(60Hz), 1280x800 (60Hz), 1024x768 (60Hz), 800x600 (60Hz)		
		Equalizer	Yes		
		Reclock	Yes		
		SDI Cable Drive	Yes		
	Authorization		Tender Specific OEM Authorization required		

8.	Supply, Installation, Testing and Commissioning of HDMI to SDI Converter			2	
		Conversion	HDMI to 3G/HD/SD-SDI		
		Video Inputs	1x HDMI		
		Video Outputs	2x 3G/HD/SD-SDI		

			with embedded Audio		
		Audio Inputs	2x HDMI Audio embedded		
		Audio Outputs	2x SDI Audio embedded		
		Supported Video Input Formats	1080p (23.98/24/25/29.97/30/50/59.94/60Hz), 1080i (50/59.94/60Hz), 720p (50/59.94/60Hz), 576i (PAL), 480i (NTSC)		
		Output Resolutions	Automatically matches the SD, HD and 3G HDMI video input		
		SDI Cable Drive	Yes		
	Authorization		Tender Specific OEM Authorization required		

9.	Supply, Installation, Testing HD/SD Character Generator Software			1	
		SD Resolution	Yes		
		HD Resolution	Yes		
		Manual Playout Control	Yes		
		Animated Logo / Sequence	Yes		
		Dynamic Data Integration	Yes		
		Database Integration	Yes		
		Fast Graphics Rendering	Yes		
		Template-based	Yes		

10.	Supply, Installation, Testing and Commissioning of HD / SD Character Generator Kit			1	
		Video Input	HDMI x 1 HD-SDI x 1		
		Video Output	HD-SDI x 2		
		Input Format	1080i 50/59/60 720p 50/59/60 576i 50 480i 59		
		Control	By Dip Switch/PC		
		F/W Upgrade	Ethernet (RJ-45)		

11	Supply, Installation, Testing and Commissioning of HD/SD Channel Digital Video Switcher			1	
		Video Standard	HD & SD		
		Video Input Format	1080p 25/29/30/50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz 576i 50Hz 480i 59.94Hz		
		Video Processing	SDI: 4:2:2 HDMI: YUV 4:2:2 10 bit, RGB 4:4:4		
		Input Routable / Cross point	All 12, repeatable		

		Video Input	Standard: 8x SDI, 2x HDMI Max: 12x SDI, 3x HDMI		
		Mix HD & SD Source	Yes		
		Computer Graphic Interface	Max 3 via HDMI		
		Video Output	4x SDI assignable: PGM, PVW, AUX & Clean Out 2x HDMI assignable: PGM & multi-view Output Resolution: 1080i 50/59.94/60Hz 1080p 25/29/30		
		Down-converted Output	4x SDI		
		Built-in Multi-view Monitoring Out	2x HDMI		
		Analogue Audio Input	4x Balanced XLR		
		Analogue Audio Output	2x Balanced XLR		
		Digital Embedded Audio Support	Input up to 16 channels, Output 4 channels		
		Audio Delay Calibration	Up to 8 frames per channel (*SDI input audio only)		
		A+V Switching	Yes		
		Title Creator	Yes		
		DSK	2x DSK support Lumakey/ Linear key (Key / Fill)		
		Picture in Picture	2		
		Logo Insertion	2 (or 1 logo + 1 clock)		
		Still Store	12		
		Effects	FTB, Cut, 8 Wipe with border		
		Transition Preview	PiP& DSK		
		Sync / Reference In/Out	Built-in Genlock Support external sync with loop thru		

		Tally Output	1x D-sub 25pin, dual color		
		PC Remote Control	Ethernet (free Window software) RS-422/ RS-232		
		Special Features	4-CH SD down convert output Built in Character Generator system Selectable SMPTE/EBU Audio level		
		Chassis	2 units, 2RU rack-mount mainframe		
	Authorization		Tender Specific OEM Authorization required		

12.	Supply, Installation, Testing and Commissioning of Intercom System			1	
		Tally	2 x 15 Pin DSub Sockets for Tally A and B		
		MIC / Headset	3.5 mm Stereo Jack Socket for Headphone /Microphone combination Headset Impedance 8-600 Ohms 100 mW (min)		
		Headphone	(6.3mm) Stereo Headphone Socket Headset Impedance 8-600 Ohms 100 mW (min)		
		Light Socket (DC 12 V)	3 PIN XLR Connector PIN 2: 12V PIN 3: GND Light Power Consumption: 12 V / 100 mA (MAX.)		
		Microphone	3 PIN XLR / ¼" (6.3mm) Jack Microphone Socket Switchable Condenser / Dynamic Input Microphone Level -67 dB		
		Frequency Response	550-3.6 kHz, <+/- 3dB		
		THD	< 3%		

		S/N	> 50dB		
		Built-in Speaker	70mm x 30mm 32 Ohm 3 Watts		
		Operating Range	Up to 200 meters between base station and slave		
	Authorization		Tender Specific OEM Authorization required		
13.	Supply, Installation, Testing and Commissioning of 6-Channel Audio Delay with Level Adjustment			2	
		Audio Input	6x XLR, 2x RCA		
		Audio Output	4x XLR, 2x RCA, 1x 3.5mm		
		Audio Indicator	1.77" Color OLED		
		Audio Delay	Up to 3 Seconds		
		Special Feature	Audio Delay and Mix, delay by channel		
		Chassis	2 units, rack-mount mainframe		
	Authorization		Tender Specific OEM Authorization required		
14.	Supply, Installation, Testing and Commissioning of 2 Channel Audio Isolation Transformer			2	
		Impedance	600Ω+/- 10% (Input & output)		
		Bandwidth Frequency	20Hz ~20KHz ±0.5dB		
		THD: 1 KHz	< 0.015% @ +4dBu; 20Hz: 0.05% @+4dBu		
		Insertion loss	<0.5dB		
		Turns Ratio	1:1		
		Input	2 XLR Audio Input Channels		
		Output	2 XLR Audio Output Channels		
15.	Supply, Installation, Testing and Commissioning of High Performance 15 inch Laptop for Character			1	

	Generator with i7/8GB/2GB Internal Graphics/1TB with Windows 10 Professional		
16.	Supply, Installation, Testing and Commissioning of Workstation for Teleprompter i7/8GB/2GB Internal Graphics/1 TB HDD with Windows 10 Professional, 15 inch Monitor, mouse and keyboard	1	
17.	Supply, Installation, Testing and Commissioning of 43 inch and 55 inch Full HD Professional Display for Anchor Preview and Multiviewer with 3 years warranty	1	
18.	Supply, Installation, Testing and Commissioning of 17.3" Full HD Broadcast monitor	1	
	Screen	17.3" LED Backlit	
	Chassis	Tabletop	
	Resolution	1920x1080	
	Viewing Angle	(H) +70/-70° (V) +60/-60°	
	Luminance/Contrast	300cd/m ² 400:1	
	Video Inputs	1x 3G/HD/SD-SDI 2x HDMI	
	Loop Through	1x 3G/HD/SD-SDI	
	Supported Input Resolutions	1080p(23.98/24SF/24/25/29.97/30/50/59.95/60Hz), 1080i(50/59.94/60Hz), 720p(50/59.94/60Hz), 576i(PAL), 480i(NTSC)	
	Aspect Ratio	16:9, 4:3	
	Tally LED	Live (Red) Cued (Green)	
	Audio In/Out	Embedded Audio on SDI and HDMI	
	Special Features	3G-SDI Support, Blue Only, Safe Frame, Pixel Zoom up to 8x	
	Authorization: Tender Specific OEM Authorization required		

19.	Supply, Installation, Testing and Commissioning of 20 Channel Audio Mixer			1	
		<ul style="list-style-type: none"> • 20-Channel Mixing Console • Max. 16 Mic / 20 Line Inputs (12 mono + 4 stereo) • 4 GROUP Buses + 1 Stereo Bus • 4 AUX (incl. FX) • “D-PRE” mic preamps with an inverted Darlington circuit • 1-Knob compressors • High-grade effects: SPX with 24 programs • 24-bit/192kHz 2in/2out USB Audio functions • Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter • PAD switch on mono inputs • +48V phantom power • XLR balanced outputs • Internal universal power supply for world-wide use • Rack Mount Kit Included • Metal chassis 			
	Authorization	Tender Specific OEM Authorization Required			
20.	Supply, Installation, Testing and Commissioning Wireless Lapel Mics			2	
		Supply of wireless Lapel microphone, with diversity receiver (UHF),18 Channel Preset or better , Display on Transmitter and Receiver , RF Power output 50mW or Better , Polar Pattern :- Omnidirectional , Carrier frequency range 500Mhz to 865Mhz , Frequency response 45Hz to 15Khz , Mute Button on Transmitter , Battery Operation time Minimum 8hr , Should have Charging Contact in Body pack Transmitter . Receiver dynamic range 80dB (A-weighted) switching bandwidth			

		Minimum 40Mhz Or better		
	Authorization	Tender Specific OEM Authorization Required		

21.	Supply, Installation, Testing and Commissioning Studio Audio Monitor			4	
		Speaker Type	2-way bi-amp powered studio monitor		
		Frequency range (-10dB)	54Hz - 30kHz		
		Components	5" cone , 1" dome		
		Output power	70W		
	Authorization		Tender Specific OEM Authorization Required		
22.	Supply, Installation, Testing and Commissioning EDITING SUITE				
		Apple- iMAC	All in One PC with 21.5-inch (diagonal) LED-backlit display 1920x1080 resolution, 2.3GHz dual-core Intel Core i5, 8GB of 2133MHz DDR4 memory, 1TB (5400-rpm) hard drive, Intel Iris Plus Graphics 640 with FCP X	1	
23.	Supply, Installation, Testing and Commissioning 4-Port HDMI Splitter			2	
		Out Put Interface	4 x HDMI		
		Input Interface	1 x HDMI		
		Max. Data Rate	Single-link 600MHz (18Gbps) or better		
		Max. Pixel Clock	340 MHz		

		Compliance	HDMI (3D, Deep Color, 4K); HDCP Compatible		
		Audio Formats Supported	DTS-HD Master Audio, Dolby TrueHD, Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM		
		Video Processing	HDR 4K2K@60 4:2:0 10bits 4K2K 60Hz YCbCr4:4:4 8bit/YCbCr4:2:0 10bit 4K2K 30Hz YCbCr4:4:4 8bit		
		Max. Resolution:	Up to 4096 x 2160 / 3840 x 2160 @ 60Hz ; 4096 x 2160 / 3840 x 2160 @ 30Hz ;		
		Video Format	HDMI Supported Resolutions 4096x2160p60/59.94/50 4096x2160p30/29.97/25/24/23.98 3840x2160p60/59.94/50 3840x2160p30/29.97/25/24/23.98 1080p60/59.94/50, 1080p30/29.97/25/24/23.98 1080i60/59.94/50, , 720p60/59.94/50 480p, 576p, 480i, 576i PC Supported Resolutions: 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@60Hz, , 1280x768@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@ 60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1680x1200@60Hz, 1920x1080@60H		
	Authorization		Tender Specific OEM Authorization Required		
24.	Supply, Installation, Testing and Commissioning Video Distribution Amplifier			2	

		Video Inputs	2 x BNC		
		Video Output	6 x BNC		
		Video Format	1080p 60/59.94/50/29.97/23.98 1080i 60/59.94/50 720p 60/59.94/50 525i, 625i		
		Audio Format	Support SDI embedded audio Up to 8 channels, 48KHz, PCM audio		
		Audio Inputs	2x RCA (Stereo Pair) 2x SDI Audio embedded		
		Audio Outputs	2x HDMI Audio embedded		
		Power	12V / 2.8W		
		Dimension (LxWxH)	127 x 85 x 45 mm		
		Warranty	3 Years On Site Warranty with 24x7 Support NBD		
	Authorization		Tender Specific OEM Authorization Required		
25.	Supply, Installation, Testing and Commissioning H.264 USB Recorder / Player			1	
		Video Standard	HD & SD		
		Video Format	1080p 25/30 1080i 50/60 720p 50/60 480i/480p/576i/576p		
		Supported Video Input Signal	1x HDMI		
		Monitoring/ Playback output	1x HDMI		
		Embedded Audio	2CH PCM		
		Storage Medium	USB Flash Drive		
		Estimated Record Time (min per	SD 16GB: 4.2Hr (7.5Mbps)~ 10Hr (3Mbps) HD 16GB: 1.5Hr (20Mbps)~ 2Hr (15Mbps)		

		10GB)			
		Method of Retrieval Recorded Content	Removable Hard Drive / SSD, transfer data via USB 2.0		
		Storage File System	NTFS		
		Recorded File Format	MP4 (H.264+ AAC)		
		Video Recording Bit Rate / Color Sampling	YUV 4:2:0 / 12bit		
		Audio Recording Format	AAC 2CH, but not support audio rec only		
		Chassis	1U/HALF		
		Warranty	3 Years On Site Warranty with 24x7 Support NBD		
	Authorization		Tender Specific OEM Authorization Required		
26.	Supply, Installation, Testing and Commissioning of USB Hard Disk Drive for Backup			2	
		Capacity	4 TB		
		Interface	USB		
27.	Supply, Installation, Testing and Commissioning of Wireless Presenter Set			2	
		Carrier frequency range	500 – 865 MHz		
		Modulation	FM (Frequency Modulation)		
		T.H.D. at 1 kHz	typ. 0.8%		
		Signal/noise ratio	typ. 105 dB(A)		

	Authorization		Tender Specific OEM Authorization Required		
28.	Supply, Installation, Testing and Commissioning of Vocal Set			2	
		Carrier frequency range	500 – 865 MHz		
		Modulation	FM (Frequency Modulation)		
		T.H.D. at 1 kHz	typ. 0.8%		
		Signal/noise ratio	typ. 105 dB(A)		
	Authorization		Tender Specific OEM Authorization Required		
29.	Supply, Installation, Testing and commissioning of Lapel Mics			2	
		Capsule Type	Electret Condenser		
		Frequency Response	40 Hz to 20 kHz		
		Directivity	Omni-directional		
		Sensitivity	-52.0 dB \pm 2 dB		
		Output Impedance	150 Ω \pm 20%, Balanced		
		Dynamic Range	90 dB or more		
		Signal-to-Noise Ratio	64 dB or more		
		Inherent Noise	30 dB SPL or less		
		Induction Noise From External Magnetic Field	5 dB SPL or less		
		Wind Noise	40 dB SPL or less (with windscreen)		
		Maximum Input Sound Pressure	120 dB SPL		

		Level			
		Connector	B type. Supplied with XLR-3-12C (male) connector in power supply unit (single AA size battery)		
	Authorization		Tender Specific OEM Authorization Required		
30.	Supply, Testing and Commissioning HDMI to USB Converter			1	
		Input	1x HDMI		
		Output	1x USB 3.0 (Micro B)		
		Input Video Bandwidth	150MHz (pixel clock rate)		
		Output Video Bandwidth	Up to 350Mbps (USB)		
		Supported Input Video Formats	1920 x 1080p 60/59.94/50/30/29.97/25/24/23.976 1920 x 1080i 60/59.94/50 (de-interlaced out) 1680 x 1050p 60 1600 x 1200p 60 1440 x 900p 75/60 1400 x 1050p 60 1366 x 768p 60 1360 x 768p 60 1280 x 1024p 75/60 1280 x 720p 60/59.94/50 1024 x 768p 75/60 800 x 600p 75/60 720 x 576p 50 720 x 480p 60 720 x 480p 60		

			640 x 480p 60		
		Supported Output Video Formats	1920 x 1080p 60/50/30/25/24 1680 x 1068p 60 1440 x 1080p 60 1440 x 896p 60 1360 x 768p 60 1280 x 768p 60 1280 x 720p 60/50 1024 x 768p 60 960 x 536p 60 848 x 480p 60 768 x 576p 60 720 x 480p 60/50 640 x 480p 60 640 x 360p 60		
		Audio Input	HDMI Embedded Audio & 3.5 mm stereo in		
		Audio Support	2-Channel, 44.1KHz and 48KHz sample rate embedded in, up to 24-bit PCM, fixed 48KHz output		
		Capture Video Format	YUY2 (USB3.0), MJPG (USB2.0/3.0)		
		Firmware Update	Via USB		
		Firmware update	USB Port		
		Power Consumption	2W		
	Authorization		Tender Specific OEM Authorization Required		
31.	Supply, Testing and Commissioning SDI to USB Converter			1	
		Input	1x HD/3G-SDI		

		Output	1x USB 3.0 (Micro B) 1x SDI loopthrough		
		Input Video Bandwidth	150MHz (pixel clock rate)		
		Output Video Bandwidth	Up to 350Mbps (USB)		
		Supported Input /Output Video Formats	1920 x 1080p 60/59.94/50/30/29.97/25/24/23.976 1920 x 1080i 60/59.94/50 (de-interlaced out) 1280 x 720p 60/59.94/50		
		Audio Input	SDI Embedded Audio & 3.5 mm stereo in		
		Audio Format	2-Channel, 16-bit PCM		
		Recording Video Format	YUY2 (USB3.0), MJPG (USB2.0/3.0)		
		Firmware Update	Via USB Port		
		Software Compatibility	Windows: Amcap, Google Plus Hangouts, OBS (Open Broadcast Software), Skype, VLC, Xsplit Broadcaster, Zoom.us Linux: VLC, OBS Mac OS X: OBS, Quicktime player, VLC, Facetime		
		Supported OS	Windows® 7(SP1) / Windows 10 / Windows 8.1 / Windows 7 (x86, x64), OS X (10.10 or above), Linux Ubuntu 14.04		
		Power Supply	Via USB		
	Authorization		Tender Specific OEM Authorization Required		
32.	Supply, Installation, Testing, Commissioning of System Requirement for Streaming			1	
			Windows 10 Professional PC: Intel Core™ i5-4440 3.10GHz + NVIDIA®		

			GeForce® GTX 660 or higher Laptop: Intel® Core i7-4810MQ + NVIDIA GeForce GTX 870M or higher 4GB RAM or higher		
33.	Supply, Installation, Testing, Commissioning of H.264 Video Streaming Encoder and Recorder			1	
		Video Input	HDMI x1 SDI x1		
		Supported Video Input Resolution	1080p 60/59.94/50 1080p 30/29.97/25/24/23.98 1080i 60/59.94/50 720p 60/59.94/50 480i 59.94, 576i 50		
		Audio Input	SDI & HDMI embedded audio RCA L/R x1		
		Encoding	H.264/AVC, Main/High Profile Level 4.1		
		Video Bitrate	Record Only: Up to 16Mbps (1080p50/60) Stream Only: Up to 10Mbps (1080p50/60) Rec+Stream: 10Mbps (1080p25/30)		
		Video Rate Mode	CBR		
		Audio Mode	Stereo/Mono		
		Audio Bitrate	Stereo: 64~384Kbps Mono: 32~192Kbps		
		Streaming Protocols	TS over TCP/UDP (unicast & multicast) RTSP over HTTP/TCP/UDP (RTSP Elementary Streaming) RTMP/RTMPS (Publish) HLS SRT		
		Recording File Format	MP4		

		Storage	SD Card x1 (File System: NTFS, FAT, exFAT)		
34.	17U Equipment Rack with PDU and Cable Manager			1	
35.	Accessories, Cables, Connectors, Patch Panels		All required accessories, cables, connectors, patch panel etc should be provided by the user	1	
36.	Installation, Testing, Commissioning of Studio and PCR			1	