



**श्री विश्वकर्मा कौशल विश्वविद्यालय**  
(हरियाणा सरकार, एक्ट संख्या 25, 2016 के तहत )  
**Shri Vishwakarma Skill University**  
**Dudhola, Palwal, Haryana**

**Tender Document for**  
**Supply and Installation, Commissioning of Broadcast**  
**Multimedia Studio**

**Tender No: SVSU/2025/GB/T-419**

**Dated: 15-09-2025**

## **SETTING UP OF BROADCAST MULTIMEDIA STUDIO AT SHRI VISHWAKARMA SKILL UNIVERSITY**

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The Shri Vishwakarma Skill University is coming up with a Television studio to cope up with the present-day need of the online educational content for the students.

The DPR envisages technology to record/ stream educational programmes for the benefit of the student community for the undergraduate and post graduate students.

The Technical equipment requirement needed for the studio is designed with the latest Broadcast trends.

The programme production facilities which includes studio production, editing and streaming along with outdoor shooting of programmes.

The DPR envisages the need of the present technology for record and dissemination of educational content to the students.

## **Tender for setting up of Broadcast Multimedia Studio at Shri Vishwakarma Skill University**

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## 1. Notice Inviting Tender

Sealed tenders are invited from reputed manufacturers / their authorized Indian representatives for setting up of Broadcast Multimedia Studio on turnkey basis at Shri Vishwakarma Skill University including purchase of Audio/ Video equipment on supply, installation, testing and commissioning basis.

### 1.1. **SCHEDULE**

|           |   |   |
|-----------|---|---|
| <b>1</b>  | (Tender Fee + E-Service Fee) + GST  |   |
|           | (1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME - 2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016/ for Startups as notified vide G.O. No.2/2/2016-4IBII dated 03.01.2019. | NIL   |
|           | (2) For remaining bidders both from the Haryana and Non Haryana (Tender Fee + E-Service Fee) + GST  | <b>E-portal fees- 1000/- + 180/- = 1180/-<br/>Tender fees-5900/- inclusive of gst</b> |
| <b>2</b>  | EMD Amount  |   |
|           | (1) For Haryana based manufacturing Micro and Small Enterprises (MSEs) & Khadi Village Industries Unit eligible as per the "Haryana State Public Procurement Policy for MSME - 2016" notified vide G.O. No. 2/2/2016-4I BII(1) dated 20-10-2016/ for Startups as notified vide G.O. No.2/2/2016-4IBII dated 03.01.2019. | NIL   |
|           | (2) For remaining bidders both from the Haryana and Non Haryana   | Rs. 400,000/-   |
| <b>3</b>  | Performance Security  | 5% of Bid Value   |
| <b>4</b>  | Product Warranty Period   | 03 years  |
| <b>5</b>  | Issue of Tender Document  | 15-09-2025 at 17:00 Hours   |
| <b>6</b>  | Online Tender Purchase Start Date   | 15-09-2025 at 17:00 Hours   |
| <b>7</b>  | Online Tender Purchase End Date   | 06-10-2025 at 15:00 Hours   |
| <b>8</b>  | Last date for receipt of queries  | 24-09-2025 at 15:00 Hours   |
| <b>9</b>  | Date of pre bid meeting   | 24-09-2025 at 11:00 Hours   |
| <b>10</b> | Online proposal Submission Start Date   | 15-09-2025 at 17:00 Hours   |
| <b>11</b> | Online proposal Submission End Date   | 06-10-2025 at 15:00 Hours   |
| <b>12</b> | Opening of Technical Bid  | 09-10-2025 at 11:00 Hours   |
| <b>13</b> | Technical Presentation  | Subsequent date to be informed later.   |
| <b>14</b> | Financial Bid   | Subsequent date to be informed later.   |

|           |                             |   |
|-----------|-----------------------------|---|
| <b>15</b> | Validity period of Proposal |   |
| <b>16</b> | Address of Communication    | <b>Registrar<br/>Shri Vishwakarma Skill University,<br/>Vill-Dudhola, Palwal, Haryana-<br/>121102</b> |
| <b>17</b> | Contact Phone Numbers       | <b>0124-2746800</b>   |
| <b>18</b> | E-mail Address              | <b>Registrar@svsu.ac.in</b>   |
| <b>19</b> | Validity period of Proposal | 180 Days  |

**Tender document can also be downloaded from University website: [www.svsu.ac.in](http://www.svsu.ac.in)**

The tenders received after the due date and time will not be accepted. Shri Vishwakarma Skill University reserves the right to accept or reject any tender, fully or partially without assigning any reason whatsoever.

## **2. Instructions to Bidders**

### **2.1. Subject: Invitation for “Supply and Installation of Broadcast Multimedia Studio”**

Shri Vishwakarma Skill University, invites online Bids (Technical bid and Financial bid) from eligible and experienced OEM (Original Equipment Manufacturer) OR OEM Authorized Dealer/Distributors/Agent for **Supply and Installation, Commissioning of Broadcast Multimedia Studio** with warranty period as stated at “Schedule “on site comprehensive warranty from the date of the satisfactory installation/commissioning of the equipment as per terms & conditions specified in the tender document.

Bidders can access tender documents on the website of the University and fill them with all relevant information and submit the completed tender document with E- service Fee, Tender Fee and EMD amount online as per the schedule to <https://etenders.hry.nic.in>

### **2.2. INSTRUCTIONS TO BIDDER FOR GeM Bid.**

**Note:** Following conditions will over-rule the conditions stated in the tender documents, wherever relevant and applicable. Interested bidders can read the instructions related to Bid system from the website <https://etenders.hry.nic.in>

#### **2.2.1. GEM BID:**

- 2.2.1.1.** The Bidder shall bear all costs associated with the preparation and submission of its bid and Corporation will in no case be held responsible or liable for these costs, regardless of the conduct or outcome of the bidding process. Bidder Must registrar in GeM to participate on Bid.

- 2.2.1.2.** Tenders without EMD (if applicable) or copy of valid documents supporting exemption from such payments, EPF reg. No. will be summarily rejected, except where exemption is provided in the tender.
- 2.2.1.3.** Exemption from paying tender fees & Earnest Money Deposit:
- 2.2.1.4.** As per Public Procurement Policy of Government of India, exemption from payment of Tender fees & Earnest Money Deposit is allowed to Micro and Small Industries (MSEs) provided such MSEs enclose certified copy of Valid Certificate of Registration as MSEs issued by appropriate Registering Authority (under MSMED Act 2006) OR any other entity as may be specified by Govt. guidelines from time to time, after ensuring that the approval pertains to the class of item/ works for which tender is floated. The certificate shall be of latest but before the deadline for the bid submission. MSEs shall be treated as owned by SC/ ST or women entrepreneurs as per GOI guidelines. Kindly note that if these documents are not attached with the Bid/Tender Document as per the provisions in the e-Tender process by MSME Bidder/ Tenderer for claiming exemptions, their Bid/ Tender shall not be entertained and shall be treated as rejected.
- 2.2.1.5.** Start-ups (as defined by the Department of Promotion of Industrial and Internal Trade – DPIIT) shall be exempted from payment of Earnest Money.
- 2.2.1.6.** Public Sector Undertakings, State Government Undertakings, may be exempted from payment of tender fees/ EMD subjected to the prior approval of Competent Authority.
- 2.2.1.7.** Relaxation of conditions of prior turnover and prior experience:
- 2.2.1.8.** The Procuring Entity reserves its right to Pre-qualification criteria with respect to Prior Turnover and Prior experience may relax for all start-ups [Whether Micro & Small Enterprises or Otherwise] as per GOI guidelines subject to meeting of Quality and Technical specifications. The decision of the Procuring Entity in this regard shall be final.
- 2.2.1.9.** The decision of the Procuring Entity in this regard shall be final. ii. Unless otherwise stipulated in tender documents, the Procuring Entity reserves its right to consider allowing the participation of “Start up” companies with capability to execute the supply/ services, as per technical specifications/ perform the job as per scope of work specified in the tender and subject to meeting extant & relevant guidelines of Government of India. This should be confirmed and substantiated in the technical bid. The bidder who intends to participate as “Start-up” company should enclose the Certificate of Recognition issued by

Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India during submission of technical bid. (AS DEFINED IN GAZETTE NOTIFICATION NO. D.L33004/99 DATED 18.02.2016 AND 23.05.2017 OF MINISTRY OF COMMERCE AND INDUSTRY), AS AMENDMED TIME TO TIME).

- 2.2.1.10.** Make in India Order: Orders issued by the Government of India regarding eligibility to participate and for purchase preference to “Local Suppliers” to encourage 'Make in India' and promote manufacturing and production of goods and services in India shall apply to this procurement, as detailed below.
- 2.2.1.11.** Categories of Local Suppliers: Bidders/Contractors are divided into three categories based on Local Content. Local content in the context of this policy is the total value of the service procured (excluding net domestic indirect taxes) minus the value of imported content in the service/ incidental Goods (including all customs duties) as a proportion of the total value, in percent):
- a) 'Class-I local Supplier' with local content equal to or more than that prescribed in tender documents or 50% if not prescribed.
  - b) 'Class-II local Supplier' with local content equal or more than that prescribed in tender documents or 20% if not prescribed, but less than that applicable for Class-I local Supplier.
  - c) 'Non - Local Supplier' with local content less than that applicable for Class-II local Supplier, in sub-clause above.
- ii. Eligibility Restrictions based on Reciprocity: If so, stipulated in the Tender Document, entities from such countries identified as not allowing Indian companies to participate in their Government procurement shall not be allowed to participate on a reciprocal basis in this tender. The term entity of a country shall have the same meaning as under the FDI Policy of DPIIT as amended from time to time.
- 2.2.1.12.** Eligibility to participate
- a) Minimum local content for eligibility to participate: Only bidders meeting the minimum prescribed local content for the product shall be eligible to participate subject to the conditions of tender documents.
  - b) Classes of Local Suppliers eligible to Participate: Based on the Make in India Policy, classes of local/ non-local Suppliers eligible to participate in the tender shall be declared in tender documents, Schedule of Requirements. If not so declared, only Class-I and Class-II local Suppliers shall be eligible to participate and not non-local Suppliers.
- 2.2.1.13.** Price Negotiation: Normally there shall be no price negotiations. However, the Procuring Entity reserves its right to negotiate with the lowest acceptable bidder (L-1), who is technically cleared/ approved for delivery of Services and on whom the Contract would have been placed but for the decision.

#### 2.2.2. **Technical bid: -**

Bidders must positively complete online Bid procedure at <https://etenders.hry.nic.in> They shall have to submit the documents as prescribed in the TENDER online in the website. The bidders may submit their complete bids (with all the requisite documents) in multiple files.

#### 2.2.3. **Financial bid: -**

Bidder must submit the Price/Financial bid document (BOQ) as per the format given in TENDER/available online and uploaded as per instructions therein. **Physical submission of price bid shall not be considered.** The financial bids of technically qualified bidders shall be opened online at the notified date.

2.2.4. For amendment, if any, please visit <https://etenders.hry.nic.in> web site regularly. In case of any bid addendum/amendment/ corrigendum/Notice/clarification, the responsibility lies with the bidders to note the same from web site. The **Shri Vishwakarma Skill University, Haryana** shall have no responsibility for any delay/omission on part of the bidder.

### 3. **Terms and Conditions**

- 3.1. The tender is for setting up of a Broadcast studio at Shri Vishwakarma Skill University on turnkey basis. It would include supply, installation, testing and commissioning of Studio equipment (audio and video).
- 3.2. This Invitation is open only to the manufacturers (OEM) & their authorized representatives having experience in Broadcast Television System in Supply, Integration, Installation, Testing, and Commissioning of equipment mentioned in the list and providing after sales service for the equipment.
- 3.3. The list of the studio equipment along with the technical specifications and the quantity required is at Annexure – I

### 4. **Eligibility Conditions**

- 4.1. The bidder shall be a company registered in India.
- 4.2. The bidder shall be either the manufacturer (OEM) and/or the authorized representative for supply and maintenance of all the studio equipment mentioned in Annexure-I.
- 4.3. The bidder shall have experience in setting up of Broadcast studios. This would include – (i) Supply, Integration, Installation, Testing, commissioning of equipment mentioned in Annexure-I and providing after sales service
- 4.4. **The bidder shall have setup/commissioned at least two broadcast studios in**



**the last five financial years (2018-2023) anywhere in India.**

- 4.5. The annual turnover of the bidder company shall not be less than Rs. 2Cr (Rs. Two Crore) per year for any three financial years during the previous five financial years (2018-2023). Proof of the same to be provided.

## **5. Earnest Money Deposit**

Bidder would have to submit an Earnest money deposit of Rs. 4 lakhs (Rs. Four lakhs only). No interest will be paid on the Earnest money deposit. Bids without Earnest money deposit would be rejected.

Submission of Earnest Money Deposit shall be done through Bank Transfer/Demand Draft. The Shri Vishwakarma Skill University bank details are as follows:

|                           |  |
|---------------------------|--|
| <b>Beneficiary Name</b>   |  |
| <b>Name of the Bank</b>   |  |
| <b>Account No.</b>        |  |
| <b>IFSC</b>               |  |
| <b>Name of the Branch</b> |  |

## **6. Refund of EMD**

The EMD will be returned to unsuccessful Bidders only after the award of Purchase Order. In case of successful Bidder, EMD will be returned after the submission of Performance Bank Guarantee.

EMD will not be refunded, if the order is not accepted. In case, the offer is accepted, but not honoured by the Bidder, the EMD will be forfeited. The EMD will also be forfeited, if wrong information is furnished or any vital information is concealed in the tender document.

If the tenders are cancelled or recalled on any grounds, the EMD will be returned to the bidder.

## **7. Submission of Bids**

- 7.1. The bid shall be submitted in two parts. Part I – Technical bid and Part II – Commercial bid.
- 7.2. All the pages in the two parts of the bid should be separately numbered serially. A table of contents clearly indicating the page numbers should be there.
- 7.3. Part I- Technical bid should contain the following.
- 7.4. Bidder details as per the format prescribed at Annexure II.
- 7.5. Make, model number, technical specifications, product features, detailed literature, brochures, etc. pertaining to the equipment quoted. Make and model No. of the equipment quoted should be provided in the format prescribed at Annexure – III.
- 7.6. Certificate from the Original Equipment Manufacturer (OEM) for offering each of the equipment in the bid to Shri Vishwakarma Skill University and for supporting the

equipment for a period of not less than 3 years including one/two years' warranty from the date of commissioning/acceptance of the equipment.

- 7.7. Compliance statement in the format prescribed at Annexure-IV. Check list as per the format prescribed at Annexure-V.
- 7.8. Proof of depositing Earnest money deposit of Rs. 4 Lakh (Rs. Four Lakhs Only) Transaction receipt or screenshot or Demand Draft Original Copy.
- 7.9. Declaration as per the format prescribed at Annexure-VI.
- 7.10. Part II – commercial bid should contain the price details of the equipment and services quoted in the format prescribed at Annexure-VIII. The price quoted should be in Indian Rupees (INR) and include all duties, levies and charges. The price should be quoted in both figures and words. In the case any discrepancy, the figures in words would be taken.

## 8. **Other Terms and Conditions**

The offer shall be valid for a minimum period of Six months from the date of Opening of the tender.

## 9. **Performance Security:**

- 9.1. Performance Bank Guarantee is mandatory.
- 9.2. The Successful Bidder shall require to submit the performance security/Guarantee in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is stated at the "Schedule" of the tender document within 21 days from the date of receipt of the purchase order and should be kept valid for a period of 60 days beyond the date of completion of warranty period. The Performance security in other form viz., FD/Term Deposit Receipt etc. shall not be accepted.
- 9.3. The Successful Bidder should submit performance security/Guarantee as prescribed above to be received in the office Registrar, Stores & Purchase Section on or before 21 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-VII of the tender documents, for an amount covering 10% of the purchase order value.
- 9.4. The Performance Bank Guarantee should be established in favour of Shri Vishwakarma Skill University," through any Bank situated at Gurugram or outstation with a clause to enforced the same on their local branch at Gurugram. 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 Bidder and the purchaser under the terms and conditions of acceptance to tender.

- 9.5.If the supplier shall not submit the performance security within 21 days from the date of receipt of purchase order and if there is delay in submission of performance security, purchase order may be cancelled. The competent authority may accept the performance security after the above mention deadline of 21 days subject to submission of justification by the Bidder, however the decision of the competent authority is final in this regards.
- 9.6. The successful Bidder 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.
- 9.7.The performance bank guarantee shall be kept valid during the period of contract.
10. All essential items including cables, connectors, etc, needed for complete installation and for the smooth operation of the equipment shall be assumed to have been included in the quoted prices/items if these have not been quoted separately.
11. The tenderer shall provide warranty/Guarantee for quoted product for a Period of one/two years from the date of commissioning and acceptance of the equipment. The tenderer should also give an undertaking that during warranty period, if any defect in the supplied equipment is noticed by the Purchaser, the supplier or his representative shall rectify the defect or replace the defective item free of cost at the Purchaser's site within a period of 30 days of his notification.
12. Operation and maintenance manuals both Hard & Soft Copy and necessary extension boards should be supplied with the equipment.
13. Charges on account of installation, commissioning and user training, if any, should be quoted separately.
14. In the list of equipment at Annexure-I, make and model number, if any, has been indicated for illustration/reference only. Any equivalent / better make/model with similar functions and operations would also be considered.
15. Shri Vishwakarma Skill University reserve the right to purchase varying quantity of material, less or more than the quantity specified in the tender.
16. Original copy of the software associated with all the equipment shall be supplied in DVD/Pen drive.
17. Adequate training on the features and use of the equipment shall be provided to the Shri Vishwakarma Skill University staff at Shri Vishwakarma Skill University.
18. Only one Bid could be submitted by one Bidder.
19. Shri Vishwakarma Skill University reserves to itself the right of accepting the whole or any part of the offer and the tenderer shall be bound to perform the same at his quoted rates.
20. **Liquidated Damages (L.D)/Penalty for Non-execution of Order:** If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be

open to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier at the rate 1% (one percent) of the total cost of the material/contract per week or such other amount as the Registrar, SVSU, Dudhola, Palwal may decide till the supply/work remains incomplete, provide that the total amount of the compensation shall not exceed 10% (ten percent) of the total cost of the material/contract. After the lapse of 15 days beyond the stipulated/extended period, it will be the discretion of the University to cancel the supply/work execution order at the risk and the cost of the Supplier/contractor. Besides, forfeiture of the Earnest Money, the University shall be at liberty to take such action as recovery of compensation to the extent of 10% of the amount of the supply/contract order, blacklisting, etc. An appeal against this penalty shall, however, lie with the Hon'ble Vice-Chancellor (VC), Shri Vishwakarma Skill University, Dudhola, Palwal whose decision shall be final.

21. The Contract shall be interpreted, construed and governed by the laws of India. In case of any disputes, the same will be under jurisdiction of District Court, Palwal.
22. Any other guideline/ restrictions/ stipulations from Govt. of India regarding supply of equipment from non-trusted sources, if any, would be applicable.
23. If there is any discrepancy or ambiguity regarding the make/ model no. Mentioned in the technical bid (Annexure-IV & V) and the financial bid (Annexure-VIII), the bid is likely to be rejected.
24. All information as per the prescribed annexures should be mandatorily provided.

## 25. **Evaluation of Bids**

- 25.1. The technical bids of eligible bidders and the bidders who have fulfilled other terms and conditions like submission of EMD, would be evaluated by Shri Vishwakarma Skill University.
- 25.2. Mere fulfilling the technical requirements will not be sufficient for technical shortlisting/ qualification.
- 25.3. As a part of technical evaluation, the bidders may be asked to demonstrate the features of the equipment quoted, at Shri Vishwakarma Skill University. No charges would be paid for the same.
- 25.4. The financial bids of the technically shortlisted/ qualified bidders would only be opened on the date and time that would be intimated to the technically shortlisted/ qualified bidders.
- 25.5. The financial bids of the bidders who do not qualify technically will not be opened.
- 25.6. The total cost of setting up and maintenance of the studio including cost of the equipment, installation, training, and any other charges would be used for financial evaluation. However, while placing the order Shri Vishwakarma Skill University reserves the right to vary the quantity of the equipment and also not order certain equipment.
- 25.7. Shri Vishwakarma Skill University reserves the right to reject any bid without assigning any reason.

26. **Payment:**

For Indigenous supplies, 100% payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at SVSU, Dudhola, Palwal in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee.

27. **Manuals and Drawings:**

27.1. Before the goods and equipment are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.

27.2. The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.

27.3. Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

28. **Site Preparation:**

The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier may visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

29. **Training of Personnel:** The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment as per Annexure-VII.

30. **Negotiation of Rates:** Regarding negotiations of rates, policy issued by the State Government vide G.O. No.2/2/2010-4-IB-II dated 18.06.2013, G.O. No.2/2/2010-4-IB-II dated 16.06.2014, G.O. No.2/2/2010-4-IB-II dated 09.02.2015 will be applicable.

The policy guidelines are available at <https://haryanaeprocurement.gov.in> on home page under section as Tender Forms.”

31. **Fraud and Corrupt Practices**

31.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this Tender, Shri Vishwakarma Skill University shall reject a Proposal without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the “Prohibited Practices”) in the Selection Process. In such an event, Shri

Vishwakarma Skill University shall, without prejudice to its any other rights or remedies, forfeit and appropriate the EMD or PBG, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to Shri Vishwakarma Skill University for, inter alia, time, cost and effort of Shri Vishwakarma Skill University, in regard to the RFP/ Tender, including consideration and evaluation of such Bidder's Proposal.

31.2. Without prejudice to the rights of Shri Vishwakarma Skill University under Clause above and the rights and remedies which Shri Vishwakarma Skill University may have under the LOI or the Agreement, if a Bidder is found by Shri Vishwakarma Skill University to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Agreement, such Bidder shall not be eligible to participate in any tender or RFP issued by Shri Vishwakarma Skill University during a period of 3 years from the date such Bidder is found by Shri Vishwakarma Skill University to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be. For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:

31.3. **“Corrupt Practice”** means the offering, giving, receiving, or soliciting, directly or Indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of Shri Vishwakarma Skill University who is or has been associated in any manner, directly or indirectly with the Selection Process or the LOI or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of Shri Vishwakarma Skill University, shall be deemed to constitute influencing the actions of a person connected with the Selection Process);

31.4. A proportionate basis, provided herein, engaging in any manner whatsoever, whether during the Selection Process or after the issue of the LOA or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the Award or the Agreement, who at any time has been or is a legal, financial or technical consultant/adviser of Shri Vishwakarma Skill University in relation to any matter concerning the Project;

31.5. **“Fraudulent Practice”** means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process.

31.6. **“Coercive Practice”** means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person's participation or action in the Selection Process;

31.7. **“Undesirable Practice”** means Establishing contact with any person connected with or employed or engaged by Shri Vishwakarma Skill University with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or Having a Conflict of Interest; and

31.8. **“Restrictive Practice”** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Selection Process.

## 32. **Conflict of Interest**

32.1. A Bidder shall not have a conflict of interest that may affect the Selection Process or the Solution delivery (the “Conflict of Interest”). Any Bidder found to have a Conflict of Interest shall be disqualified. In the event of disqualification, Shri Vishwakarma Skill University shall forfeit and appropriate the EMD, if available, as mutually agreed genuine pre-estimated compensation and damages payable to Shri Vishwakarma Skill University for, inter alia, the time, cost and effort of Shri Vishwakarma Skill University including consideration of such Bidder’s Proposal, without prejudice to any other right or remedy that may be available to Shri Vishwakarma Skill University hereunder or otherwise.

32.2. Shri Vishwakarma Skill University requires that the bidder provides solutions which at all times hold Shri Vishwakarma Skill University interest’s paramount, avoid conflicts with other assignments or its own interests, and act without any consideration for future work. The bidder shall not accept or engage in any assignment that would be in conflict with its prior or current obligations to other clients, or that may place it in a position of not being able to carry out the assignment in the best interests of Shri Vishwakarma Skill University.

32.3. Without limiting the generality of the above, Bidder shall be deemed to have a Conflict of Interest affecting the Selection Process, if:

I. the Bidder, its consortium member (the “Member”) or Associates (or any constituent thereof) and any other Bidder, its consortium member or Associate (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding or ownership interest of an Bidder, its Member or Associate (or any shareholder thereof having a shareholding of more than 5 per cent of the paid up and subscribed share capital of such Bidder, Member or Associate, as the case may be) in the other Bidder, its consortium member or Associate is less than 5% (five per cent) of the subscribed and paid up equity share capital thereof. For the purposes of this Clause, indirect shareholding held through one or more intermediate persons shall be computed as follows:

- where any intermediary controlled by a person through management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the “Subject Person”) shall be taken into account for computing the shareholding of such controlling person in the Subject Person; where a person does not exercise

control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on

- a proportionate basis; provided, however, that no such shareholding shall be reckoned under this Sub-clause if the shareholding of such person in the intermediary is less than 26% (twenty-six per cent) of the subscribed and paid up equity shareholding of such intermediary; or

- II. A constituent of such Bidder is also a constituent of another Bidder; or
- III. Such Bidder or its Associate receives or has received any direct or indirect subsidy or grant from any other Bidder or its Associate; or
- IV. Such Bidder has the same legal representative for purposes of this Application as any other Bidder; or
- V. Such Bidder has a relationship with another Bidder, directly or through common third parties, that puts them in a position to have access to each other's' information about, or to influence the Application of either or each of the other Bidder; or
- VI. There is a conflict among this and other Systems Implementation/Turnkey solution assignments of the Bidder (including its personnel and other members, if any) and any subsidiaries or entities controlled by such Bidder or having common controlling shareholders. The duties of the bidder will depend on the circumstances of each case. While providing software implementation and related solutions to Shri Vishwakarma Skill University for this particular assignment, the bidder shall not take up any assignment that by its nature will result in conflict with the present assignment; or
- VII. A firm hired to provide System Integration/Turnkey solutions for the implementation of a project, and its Members or Associates, will be disqualified from subsequently providing goods or works or services related to the same project.

### 33. **Resolution of Dispute**

In case of Depute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof



shall apply to the arbitration proceedings. The dispute shall be referred to the Vice Chancellor, Shri Vishwakarma Skill University and if he is unable or unwilling to act, the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order. The venue of the Arbitration shall be at Palwal.

34. **Applicable Law:** The place of jurisdiction would be Palwal, Haryana.
35. **Transfer and Subletting:** The supplier 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 Purchaser.
36. **Supplier Integrity:** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.
37. **Taxes:** Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, GST in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.

\*\*\*\*\*End of Document\*\*\*\*\*

**ANNEXURE-I****LIST OF STUDIO EQUIPMENT ALONG WITH TECHNICAL SPECIFICATIONS AND QUANTITY FOR SHRI VISHWAKARMA SKILL UNIVERSITY**

| <b>S.No.</b>   | <b>FEATURES</b>             | <b>SPECIFICATIONS</b>   | <b>QTY</b> |
|--|-----------------------------|---|------------|
| <b>1. SITC OF BROADCAST QUALITY 1" 4K CAMCORDER FOR OUTDOOR AND INDOOR</b> |                             |   | 1          |
|  | Camera                      |   |            |
| <b>1</b>   | Image sensor                | 1" MOS/ CMOS Single chip Image Sensor   |            |
| <b>2</b>   | Effective Pixels per Sensor | 15 Megapixel or more  |            |
| <b>3</b>   | Lens                        | The camcorder should have integrated Zoom Lens with Optical Zoom ratio of 17X or better with manual three rings for control of zoom, iris and focus |            |
| <b>4</b>   | Optical System              | F1.6 prism system   |            |
| <b>5</b>   | Neutral Density filter      | Clear, 1/4, 1/16, 1/64  |            |
| <b>6</b>   | Optical Image stabilizer    | Required  |            |
| <b>7</b>   | Sensitivity                 | F12 or better on (2000 lx, 3200 K, 89.9 reflect   |            |
| <b>8</b>   | Horizontal Resolution       | 2,000 TV lines or more (3840 x2160p mode) or better 1,000 TV lines or more (1920 x1080p mode) or better   |            |
| <b>9</b>   | Shutter Speed:              | 1/25 sec to 1/10,000 sec or better  |            |
| <b>10</b>  | Monitor/Viewfinder          | 3.5" type TFTLCD color monitor and 0.39 type OLED Viewfinder  |            |
| <b>11</b>  | Essential Features          | It should have slow and fast motion recording and reproduction facility.  |            |
| <b>12</b>  | Essential Features          | The camcorder should also have 3.5" or larger articulating LCD color monitor  |            |
| <b>13</b>  | Video / Audio Output        | The camcorder should have HD-SDI output, HDMI out and microphone/line input on XLR. Besides, it should also have USB port.                          |            |

|           |  |  |  |
|-----------|--|--|--|
| <b>14</b> | Memory card Slots                              | The camcorder should be able to record on memory cards. It should have at least two memory card slots which should enable relay recording/ simultaneous or backup recording for enhanced reliability.  |  |
| <b>15</b> | Preferred Shutter Speed at 50i/50p mode (Sec.) | 1/50 to 1/2000 or better   |  |
| <b>16</b> | Gain Selections                                | Variable from 0 dB to + 18 dB or better in steps   |  |
| <b>17</b> | White Balance                                  | Auto I Preset /Variable  |  |
| <b>18</b> | Signal to Noise Ratio                          | 60 dB or better  |  |
|           | ZOOM LENS:                                     |  |  |
| <b>24</b> | Optical Zoom Ratio                             | 17X or better  |  |
| <b>25</b> | Maximum Aperture                               | F2.8 or better   |  |
| <b>26</b> | Recording format                               | UHD (3840 x 2160)<br>HEVC Long GOP 150 Mbps (4:2:0) with MOV wrapper and MPEG-4 AVC/ H.264 Long GOP 150 Mbps (4:2:2) with MOV wrapper or XAVC - L QFHD MPEG-4 AVC / H.264 150 Mbps with MXF wrapper or MPEG-4 AVC / H.264 150 Mbps with QuickTime wrapper<br>HD (1920 x 1080):<br>MPEG-4 AVC / H.264 Long GOP 50 Mbps (4:2:2) with MOV wrapper or XAVC - L HD MPEG- 4 AVC/ H.264 50 Mbps and MPEGHD422 50 Mbps with MXF wrapper or MPEG-4 AVC / H.264 50 Mbps and MPEG-2 Long GOP with QuickTime wrapper |  |
|           | Video/Audio Recording                          |  |  |
| <b>27</b> | Recording Media                                | SXS/SDHC/SDXC/ Micro P2 Memory card  |  |
| <b>28</b> | Recording resolution                           | 3840 ×2160 (UHD),<br>1920 ×1080 (FHD),<br>1280 ×720 (HD)<br>720 ×480 (SD),<br>720 ×576 (SD)  |  |
| <b>29</b> | Recording Formats                              | XAVC/MOV(AVC)/MOV(HAVC)/AVCHD  |  |

|  |  |  |          |
|--|--|--|----------|
| <b>30</b>                                      | Live Streaming                                 | Network Protocol: RTSP/RTP/RTMP Video<br>Compression Format:<br>H.264/MPEG4 AVC Main Profile, High<br>Profile Audio Compression Format: AAC LC |          |
|  | Interfaces                                     |  |          |
| <b>31</b>                                      | Video Output:                                  | BNCx1HD-SDI, SD-SDI  |          |
| <b>32</b>                                      | HDMI Out:                                      | HDMI: 4:2:2/10 bit<br>UHD / HD /SD format support  |          |
| <b>33</b>                                      | Audio Input:                                   | XLR-type 3-pin (female) (x1)   |          |
| <b>34</b>                                      | Audio Output:                                  | 3.5 mm diameter stereo mini jack x 1,  |          |
|  | Accessories                                    | Battery, Battery charger, AC adaptor, AC cable,<br>Microphone holder kit, Shoulder strap, Eye cup.   |          |
| <b>35</b>                                      | Additional<br>battery (with<br>each Camcorder) | Qty 1x Additional Batteries  |          |
| <b>36</b>                                      | Memory Card<br>(with each<br>Camcorder)        | Qty 2x 64GB Memory cards Compatible with<br>camera for 4k recordings   |          |
| <b>2. SITC OF BROADCAST QUALITY PTZ CAMERA</b> |  |  | <b>4</b> |
| <b>1</b>                                       | Image Sensor<br>(inch)                         | 1/2,5 Inch CMOS  |          |
| <b>2</b>                                       | Number of<br>Sensors                           | 1  |          |
| <b>3</b>                                       | Mega Pixels                                    | 8.51   |          |
| <b>4</b>                                       | S/N in dB                                      | 41   |          |
| <b>5</b>                                       | Min.<br>Illumination                           | 0.5Lux   |          |
| <b>6</b>                                       | Shutter speed                                  | 1/30 to 1/10000  |          |
| <b>7</b>                                       | Optical<br>Specifications                      |  |          |
| <b>8</b>                                       | Lens mount                                     | Internal   |          |
| <b>9</b>                                       | Optical Zoom X<br>times                        | 12   |          |
| <b>10</b>                                      | Dynamic Zoom<br>x times                        | 16   |          |
| <b>11</b>                                      | Lens F Number                                  | 1.8 to 2.6   |          |
| <b>12</b>                                      | Lens ratio from<br>/ to                        | 4.4mm to 52.8mm  |          |
| <b>13</b>                                      | Auto Focus                                     | Yes  |          |
| <b>14</b>                                      | PTZ Head<br>Features                           |  |          |
| <b>15</b>                                      | PAN Angle in<br>degree +/-                     | 170  |          |

|           |  |   |  |
|-----------|--|---|--|
| <b>16</b> | PAN Speed with AC Adapter max degree/sec.  | 100   |  |
| <b>17</b> | PAN Speed with POE+ max degree/sec.        | 100   |  |
| <b>18</b> | TILT Angle in degree                       | -30 to 90                                       |  |
| <b>19</b> | TILT Speed with AC Adapter max degree/sec. | 69.9  |  |
| <b>20</b> | TILT Speed with POE+ max degree/sec.       | 69.9  |  |
| <b>21</b> | Preset Positions                           | 255   |  |
| <b>22</b> | Recording Formats                          |   |  |
| <b>23</b> | Encoder                                    | H.265/H.264/MJPEG                               |  |
| <b>24</b> | Resolution 3840 x 2160                     | Yes, 29.97p, 25p , 23.98p                       |  |
| <b>25</b> | Resolution 1920 x 1080                     | Yes, (60p/50p/30p/25p/24p / 1080i60/i50         |  |
| <b>26</b> | Resolution 1280 x720                       | Yes, 60p/50p/30p/25p/24p                        |  |
| <b>27</b> | Audio Channels                             | 2   |  |
| <b>28</b> | IP Section of the Product                  |   |  |
| <b>29</b> | IP Main Connection                         | Ethernet LAN RJ45 1000Base-T with POE+          |  |
| <b>30</b> | IP Connection supports                     | Ethernet  |  |
| <b>31</b> | IP Features Live-Streaming                 | Yes   |  |
| <b>32</b> | IP Features Remote                         | Yes, via RM-LP100 or Web-Browser no apps needed |  |
| <b>33</b> | Live-Streaming Bitrates                    | 1~60 Mbit/s                                     |  |
| <b>34</b> | Live-Streaming Protocols                   | NDI HX, SRT, RTMP, RTMPS, RTSP                  |  |
| <b>35</b> | Live-Streaming Single cast                 | Yes   |  |
| <b>36</b> | Live-Streaming Multicast                   | Yes   |  |
| <b>37</b> | IN-OUT's Connections                       |   |  |

|   |  |   |          |
|---|--|---|----------|
| <b>38</b>   | OUT HDSDI                                      | Yes, 3G HDSDI   |          |
| <b>39</b>   | OUT HDSDI<br>Format max.                       | 1080/60p,50p  |          |
| <b>40</b>   | OUT HDMI                                       | Yes   |          |
| <b>41</b>   | OUT HDMI<br>Format max.                        | 2160/30p,25p  |          |
| <b>42</b>   | OUT Audio Line                                 | Yes, 1 times 3.5mm mini jack  |          |
| <b>43</b>   | IN Audio AUX                                   | Yes, 1 times 3.5mm mini jack  |          |
| <b>44</b>   | PTZ Serial<br>Interface RS-<br>232C in/out     | Yes, over 8 PIN mini DIN  |          |
| <b>45</b>   | PTZ Supported<br>Protocols                     | Serial, PelcoD, IP JVC, IP others   |          |
| <b>46</b>   | Power and<br>Enviroment<br>Spec's              |   |          |
| <b>47</b>   | Power DC                                       | Yes, 12 Volt or 42V to 57V POE+ over Network<br>LAN                                       |          |
| <b>48</b>   | Power<br>consumption                           | 12W   |          |
| <b>49</b>   | Operation<br>Temperature in<br>Celsius degrees | 0 to 40   |          |
| <b>50</b>   | Storage<br>Temperature in<br>Celsius degrees   | -40 to 60   |          |
| <b>51</b>   | Mechanical<br>Information                      |   |          |
| <b>52</b>   | Weight in kg                                   | 1.7   |          |
| <b>53</b>   | Measurements<br>(WxHxD) in mm                  | W 142 x H 164 x D 169   |          |
| <b>54</b>   | Include<br>Package                             | All necessary cables and accessories should be<br>supplied for completeness of the system |          |
| <b>55</b>   | AC/DC adapter                                  | Yes   |          |
| <b>56</b>   | Cable 1  | Yes, Power Cable  |          |
| <b>57</b>   | Cable 2  | Yes, RS232 Cable  |          |
| <b>58</b>   | Instructions                                   | Yes, User Manual, Warranty Card   |          |
| <b>59</b>   | Remote Control<br>unit                         | Yes, IR controller  |          |
| <b>60</b>   | Ceiling mount<br>bracket                       | Yes   |          |
| <b>3. SITC OF REMOTE CONTORL PANEL FOR PTZ CAMERA</b> |  |   | <b>1</b> |
| <b>1</b>  | PTZ Camera<br>Control                          | PTZ camera remote controller compatible with<br>above camera                              |          |
| <b>2</b>  | Control<br>functions                           | Heavy duty joystick for precise pan and tilt<br>control                                   |          |

|  |                             |   |          |
|--|-----------------------------|---|----------|
| <b>3</b>   | Joystick                    | Professional zoom rocker for smooth, variable speed, Focus dial with push-auto function, zoom control   |          |
| <b>4</b>   | Control functions           | IP control of up to 100 cameras, IP Controller for IP PTZ and IP Camcorders   |          |
| <b>5</b>   | Display                     | 7-inch (diagonal) touch screen for PTZ and CCU functions  |          |
| <b>6</b>   | Feature                     | Tally input (d-sub), User assignable function keys  |          |
| <b>4. SITC OF TRIPODS WITH DOLLY FOR CAMERA LOAD</b>       |                             |   | <b>3</b> |
| <b>1</b>   | Section                     | Two-Stage Aluminium Tripod System   |          |
| <b>2</b>   | Payload                     | 5 kg or better  |          |
| <b>3</b>   | Ball diameter               | 75mm or better  |          |
| <b>4</b>   | Section                     | 2 STAGE   |          |
| <b>5</b>   | Dolly                       | Compatible Dolly  |          |
| <b>6</b>   | Supplied Accessories        | All necessary cables and accessories should be supplied for completeness of the system  |          |
| <b>5. SITC OF TRIPOD WITH DOLLY FOR CAMERA AND TP LOAD</b> |                             |   | <b>1</b> |
| <b>1</b>   | Section                     | Two-Stage Aluminium Tripod System   |          |
| <b>2</b>   | Payload                     | 16 kg or better   |          |
| <b>3</b>   | Ball diameter               | 100 mm or better  |          |
| <b>4</b>   | Section                     | 2 STAGE   |          |
| <b>5</b>   | Dolly                       | Compatible Dolly  |          |
| <b>6</b>   | Pan Bars                    | Dual Pan Bars   |          |
| <b>7</b>   | Supplied Accessories        | All necessary cables and accessories should be supplied for completeness of the system  |          |
| <b>6. SITC OF TELEPROMPTER SYSTEM</b>                      |                             |   | <b>1</b> |
| <b>1</b>   | Type                        | Teleprompter System for Mounting PTZ Camera. Should be mountable on tripod and/or support stand. Suitable Stand to bear the payload of TP mount and PTZ   |          |
| <b>2</b>   | Mounting Hardware & Monitor | 19" or better Professional Display along with Teleprompter mounting Hardware, Brightness: 350 Nits or better Screen Resolution :1024x768 or better Reverse/Rotation : 4 way picture orientation Video: Autosensing PAL/NTSC/VGA Composite                         |          |
| <b>3</b>   | Controller                  | Should be supplied with 8 Button desktop hand control device that should support adjustment of the speed and direction of scrolling text on the prompter. Should support quick command buttons for navigation around the script and trigger configurable commands |          |

|   |                             |  |   |
|---|-----------------------------|--|---|
| 4   | Feature Support             | Teleprompter software with following features support Adjustable Font Size Date & Time Display Story editing on the fly Hold & Block Stories Import RTF, DOC, HTML User- friendly Interface Should be supplied with suitable I/O interface to connect with Camera Mount Teleprompter Display |   |
| 5   | Feature Support             | TP Should be able to Show the Presentation (PPT)   |   |
| 6   | Teleprompter Terminal       | Teleprompter should be supplied with latest configuration PC/Laptop & peripherals with latest licensed windows OS and should have robust teleprompting software designed for professional shoots with ability to easily import MS word, .txt, and .rtf files.                                |   |
| 7   | <b>Supplied Accessories</b> | <b>All necessary cables and accessories should be supplied for completeness of the system</b>  |   |
| <b>7. LAPTOP COMPUTER/LAPTOP SYSTEMS FOR TELEPROMPTER</b>         |                             |  | 1 |
| 1   | Type                        | Laptop   |   |
| 2   | Processor                   | min. latest generation i5 Processor  |   |
| 3   | Ram                         | 8GB or better  |   |
| 4   | Harddisk                    | 1 TB or better   |   |
| 5   | Screen size                 | 15" in case of laptop  |   |
| 6   | Interfaces                  | HDMI interface for extended display  |   |
| 7   | Supplied Accessories        | All necessary cables and accessories should be supplied for completeness of the system   |   |
| <b>8. SITC OF DIGITAL VIDEO PRODUCTION SWITCHER FOR TV STUDIO</b> |                             |  | 1 |
| 1   | Inputs                      | Upto SDI x 8,  |   |
| 2   | Outputs                     | SDI x 4、 HDMI x1   |   |
| 3   | Video Input Interface       | Video Input Interface: HD-SDI or 3G-SDI 75Ω BNC (W/ frame synchronizer for all inputs) Input Adjustment Range ±0.5 H ( -0.3 H to +0.7H for 1080/50p Level-B) Optional NDI support Upto 4 Input   |   |



|           |                                 |   |  |
|-----------|---------------------------------|---|--|
| <b>4</b>  | Video Output Interface          | Video Output Interface: HD-SDI or 3G-SDI 75Ω BNC x 4 HDMI 2.0 Level-B (Type-A) x 1 (AUDIO support)Optional NDI Support Upto 2 Output  |  |
| <b>5</b>  | I/O delay                       | Minimum delay 1H W/ FS 0-1 F + minimum delay W/ up-resizing 1-2 F + minimum delay W/ FS + DVE 1-2 F + minimum delay W/ FS + resizing output + DVE 2-3 F + minimum delay       |  |
| <b>6</b>  | Signal Processing Standards     | 1080p/59.94, 50(Level-A)<br>1080i/59.94, 50<br>1080p/23.98, 24, 25, 29.97<br>1080PsF/23.98, 24, 25, 29.97<br>720p/59.94, 50   |  |
| <b>7</b>  | Hardware Control Panel          | All in one electronic & hardware control panel surface or hardware control panel with separate  |  |
| <b>8</b>  | Software Control Panel          | Should support Software Control Panel   |  |
| <b>9</b>  | Mix Effect Buses                | 1 ME with 4 full function keyers plus transition keyer,<br>W/ frame synchronizer and Proc Amp for all inputs<br>or better   |  |
| <b>10</b> | Chroma Key                      | Minimum 1 chroma keyer  |  |
| <b>11</b> | DVE                             | 4 channels (2 channels in 1080p/59.94, 50) (For BKGD, KEY1-2 and FLEXaKEY1-4)   |  |
| <b>12</b> | Wipe Generator                  | Built-in Wipe Generator for M/E<br>100 patterns, w/ border and softness   |  |
| <b>13</b> | Pattern Generator               | Minimum 2 Pattern Generators 2D DVE 58 patterns   |  |
| <b>14</b> | Frame Syncs & Format Converters | 6 or more freely-assignable Frame Syncs & Format Converters   |  |
| <b>15</b> | Sub Effects & Transitions       | 2 channels (1 channel in 1080p/59.94, 50) (MOSAIC, PAINT, DEFOCUS, NEGA, MONO, STROBE, FREEZE), Transitions Operation: Fader, AUTO button or CUT button Type: MIX, WIPE (DVE) |  |
| <b>16</b> | Multiviewer                     | Minimum : 1 channel Upto: 2 channels (2-16 windows, 39 layout patterns) Features: Title, Tally, Audio meter, Safety area and Border Delay: 1 frame referring to PGM output.   |  |
| <b>17</b> | Key                             | Key 1, Key 2: Bus key, Luminance key and Full key Edge/shadow available   |  |

|  |  |   |  |
|--|--|---|--|
|  |  | FLEXaKEY 1-4: Bus key, Luminance key and Full key Insertion to M/E or AUX videos, |  |
|--|--|---|--|

|  |                                     |   |          |
|--|-------------------------------------|---|----------|
| <b>18</b>  | Event Memory                        | 100 events: Settings for BKGD, KEY1-2, FLEXaKEY1-4, AUX, MV, CK Cross fade switching available at event recall  |          |
| <b>19</b>  | Tallies                             | IP, Serial & Parallel Tallies   |          |
| <b>20</b>  | GPI/O                               | 16 or more GPI/O Connections  |          |
| <b>21</b>  | Media Store                         | USB Slot for Media  |          |
| <b>22</b>  | Preview                             | Should provide preview all the sources and various effects created  |          |
| <b>23</b>  | Features must have                  | Color Sampling - YCbCr: 4:2:2 10bit, Genlock – Input BB (NTSC/PAL) or Tri-level sync 75Ω BNC x 1 Loop-through or 75Ω terminated, Range Upto Horizontal timing: ±1H Should Support Input and Output Expansion. |          |
| <b>9. SITC OF 49" LED DISPLAY PANEL FOR PCR MULTIVIEW</b>    |                                     |   | <b>1</b> |
|  |                                     |   |          |
| <b>1</b>   | Screen Size (Diagonal)              | 49"   |          |
| <b>1</b>   | Aspect ratio                        | 16:9  |          |
| <b>2</b>   | Panel Type                          | IPS Panel / D-LED   |          |
| <b>3</b>   | Resolution (H × V)                  | 1920 × 1080 pixels  |          |
| <b>4</b>   | Brightness                          | 300 cd/SqM Or Better  |          |
| <b>5</b>   | Viewing Angle (Horizontal/Vertical) | 178° / 178°   |          |
| <b>6</b>   | Inputs                              | Min HDMI x 1<br>D Sub/VGA 15-pin × 1 USB × 1<br>Or better   |          |
| <b>7</b>   | Supplied Accessories                | All necessary cables and accessories should be supplied for completeness of the system  |          |
| <b>10. SITC OF 55" LED DISPLAY PANEL FOR STUDIO FOLDBACK</b> |                                     |   | <b>2</b> |
|  |                                     |   |          |
| <b>1</b>   | Screen Size (Diagonal)              | 55"   |          |
| <b>1</b>   | Aspect ratio                        | 16:9  |          |
| <b>2</b>   | Panel Type                          | IPS Panel / D-LED   |          |
| <b>3</b>   | Resolution (H × V)                  | 1920 × 1080 pixels  |          |
| <b>4</b>   | Brightness                          | 300 cd/SqM Or Better  |          |
| <b>5</b>   | Viewing Angle (Horizontal/Vertical) | 178° / 178°   |          |
| <b>6</b>   | Inputs                              | Min HDMI x 1<br>D Sub/VGA 15-pin × 1 USB × 1<br>Or better   |          |

|   |                                       |   |          |
|---|---------------------------------------|---|----------|
| 7   | Supplied Accessories                  | All necessary cables and accessories should be supplied for completeness of the system  |          |
| <b>11.SITC OF FULL HD INTERACTIVE DISPLAY PANEL/ WITH STAND</b> |                                       |   | <b>1</b> |
|   | DISPLAY                               |   |          |
| 1   | Screen Size (Diagonal)                | 75 inch   |          |
| 2   | Panel Type / Backlight                | IPS Panel   |          |
| 3   | Aspect Ratio                          | 16:9  |          |
| 4   | Resolution                            | 3,840 x 2,160 (UHD)   |          |
| 5   | Brightness                            | 300 cd/m <sup>2</sup> or better   |          |
| 6   | Contrast Ratio                        | 1200:1 or better  |          |
| 7   | Response Time                         | 10 ms or better   |          |
| 8   | Viewing Angle (Horizontal / Vertical) | 176 degrees / 176 degrees   |          |
| 9   | Panel Life                            | 30000 hours or better   |          |
| 10  | Android OS Built-in                   | Android 11 or better  |          |
|   | TOUCH PANEL                           |   |          |
| 11  | Detection Method                      | Infrared  |          |
| 12  | Touch operation                       | Min 12 Touch points or better   |          |
| 13  | OS Support                            | Windows 7/8/10/WindowsXP/Linux/Mac/Android (WindowsXP/Linux/Mac Support one point touch)  |          |
|   | CONNECTION TERMINAL                   |   |          |
| 14  | Input                                 | HDMI Type A x 2, Component/RGB x 1, USB and USBC Type : at least 3 USB ports  |          |
| 15  | Output                                | HDMI  |          |
| 16  | Slots                                 | Should have slot to directly integrate PC in the Interactive Display Should be quoted with PC mountable on Interactive Display with Min i5 Processor, 8GB RAM, 128GB SSD Should be Similar brand as IFP |          |
| 17  | Software                              | Note Elearning software should be bundled for Annotation and other features in both Android and Windows buildin   |          |
|   | AUDIO                                 |   |          |
| 18  | Built in Speaker                      | 15 Watt or better   |          |
| 19  | Supplied Accessories                  | All necessary cables and accessories should be supplied for completeness of the system  |          |
| <b>12.SITC OF FIELD MONITOR</b>                                 |                                       |   | <b>1</b> |
|   |                                       |   |          |
| 1   | Screen Size                           | 7" or better Touch Cscreen Camera Mount Monitor   |          |
| 2   | Resolution                            | 1920 x 1080 or better   |          |

|  |                          |   |   |
|--|--------------------------|---|---|
| 3  | Brightness (cdm2 / nits) | 1000 nits or better   |   |
| 4  | Video Input              | HDMI, SDI   |   |
| 5  | Video Output             | HDMI, SDI   |   |
| 6  | Feature                  | Should be use as Viewfinder for Camcorder and should also have Recording Facility   |   |
| 7  | Audio In/Out             | HDMI, SDI and Analogue Audio in and out via XLR   |   |
| 8  | Timecode / Sync          | GenLock in, LTC   |   |
| 9  | Recording Formats        | ProRes, DNxHD   |   |
| 10                                       | Power                    | DC Power as well as Battery operated  |   |
| 11                                       | <b>Accessories</b>       | 2x SSD of 480GB or better should be supplied  |   |
| 12                                       | <b>Accessories</b>       | 1x SSD reader should be supplied  |   |
| 12                                       | <b>Accessories</b>       | Suitable camera mount attachment should be supplied   |   |
| <b>13. SITC OF VIRTUAL STUDIO SYSTEM</b> |                          |   | 1 |
| 1  | Type and features        | Integrated Virtual Studio, Switcher, Graphics, Recorder and Streaming system  |   |
| 2  | Video Input              | 8 x IP video inputs & 4 x HDMI video connections supporting video input in any combination of standard formats, resolutions, and frame rates                  |   |
| 3  | PTZ Support              | up to 8 simultaneous Pan-Tilt-Zoom (PTZ) robotic cameras  |   |
| 4  | Type and features        | chroma and luma keying technology on all source channels and M/E buses  |   |
| 5  | Stream Output            | 2 x streaming video output  |   |
| 6  | Video Output             | Video Output  |   |
| 7  | Monitor Outputs          | Upto 2 Out  |   |
| 8  | Mix/Effect Buses (M/E)   | 4 x M/E buses, 1 x Mix/Effect   |   |
| 9  | Audio Input              | 2 x embedded digital audio inputs through HDMI conversion 1 x 1/4" (6.35 mm) balanced mic 2 x 1/4" (6.35 mm) balanced line                                    |   |
| 10                                       | Keyer                    | Chroma and Luma Keying technology on all source channels and M/E buses<br>8 x input keyers<br>2 x media player keyers<br>4 x M/E keyers<br>15 x buffer keyers |   |
| 11                                       | Recording                | H.264 / MPEG-2  |   |
| 12                                       | Live Streaming Protocols | Should Support Streaming protocols  |   |
| 13                                       | Virtual Studio           | Min. 30 standard Virtual sets along with the system   |   |

|           |                              |   |  |
|-----------|------------------------------|---|--|
| <b>14</b> | Supported Media File Formats | Video: AVI, DV, DVCPro, DVCProHD, FLV, F4V, H.263, H.264, MOV, MKV, MJPEG, MPEG, MP4, WMV, WebM<br>Image: PSD, PNG, TGA, BMP, JPEG, JPEG-XR, JPEG2000, EXR, RAW, TIF, WebP, and more<br>Audio: AIFF, MP3, WAV, and more |  |
| <b>14</b> | Should Include               | 1TB or better Media Cartridge VIA USB 3.0 or better   |  |
| <b>15</b> | Hardware                     | Suitable Hardware with complete accessories like keyboard mouse,  |  |
| <b>16</b> | Display                      | Should be quoted with Two 24" FHD Monitors  |  |
| <b>16</b> | Control Panel                | Virtual System should be supplied with Hardware control Panel with atleast 10 functional keys, T- Bar, Program/Preset Rows with buttons   |  |
| <b>17</b> | Supplied Accessories         | All necessary cables and accessories should be supplied for completeness of the system  |  |

|                                     |          |
|-------------------------------------|----------|
| <b>14. SITC OF AUDIO DELAY UNIT</b> | <b>1</b> |
|-------------------------------------|----------|

|          |                      |  |  |
|----------|----------------------|--|--|
|          |                      |  |  |
| <b>1</b> | Type                 | Audio Delay unit with 1 x mic input and 2x Line input                                  |  |
| <b>2</b> | Audio Input          | 1x XLR for Balanced Mic input and Min 2x XLR or RCA for Line- in                       |  |
| <b>3</b> | Audio Output         | 2x XLR, 2x Unbalanced RCA  |  |
| <b>4</b> | Audio Delay          | Upto 700ms   |  |
| <b>5</b> | Phantom Power        | Mic Input should support Phantom Power for Mic   |  |
| <b>6</b> | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system |  |

|  |          |
|--|----------|
| <b>15. SITC OF VIDEO STREAMING ENCODER</b> | <b>1</b> |
|--|----------|

|          |                      |  |  |
|----------|----------------------|--|--|
|          |                      |  |  |
| <b>1</b> | Application          | Video streaming server with Dual Streaming out   |  |
| <b>2</b> | Video Input          | SD/HD SDI,HDMI   |  |
| <b>3</b> | Audio Input Analog   | SDI & HDMI embedded audio, RCA L/R x1  |  |
| <b>4</b> | Video Bitrate        | Record Only: Up to 16Mbps (1080p50/60)<br>Stream Only: Up to 10Mbps (1080p50/60)<br>Rec+Stream:<br>36Mbps (1080p50/60) |  |
| <b>5</b> | Streaming Platforms  | Should support simultaneous streaming to any two platforms like YouTube, Facebook or websites                          |  |
| <b>6</b> | Recording            | Simultaneous recording in H.264 MP4 format while streaming in RTMPS, RTMP, RTSP, TS,                                   |  |
| <b>8</b> | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system                                 |  |

|  |                                       |   |   |
|--|---------------------------------------|---|---|
| <b>16.SITC OF VIDEO RECORDER AND PLAYER</b>              |                                       |   | 1 |
|  |                                       |   |   |
| 1  | Application                           | File Based Video Recorder / Player  |   |
| 2  | Slots                                 | Should have Two slots for SSD and SD Slot   |   |
| 3  | Inputs                                | SDI, HDMI, 8 Channel Embedded Audio   |   |
| 4  | Output                                | SDI, HDMI, 8 Channel Embedded Audio   |   |
| 5  | Reference                             | Reference Input required  |   |
| 6  | Storage                               | 2x 500GB HDD storage module with either built in<br>USB 3.0 connection or to be Supplied with<br>1x External Dock to read HDD |   |
| 7  | File Format support                   | Apple ProRes, DNxHD   |   |
| <b>17. SITC OF 16 CHANNEL ANALOG AUDIO MIXER CONSOLE</b> |                                       |   | 1 |
|  |                                       |   |   |
| 1  | Mixing Channels                       | 16 Channel or better Audio Mixer with Min.<br>12 Mic Pre amps on Balanced XLR   |   |
| 2  | AUX                                   | 4 x Pre/Post or better  |   |
| 3  | Subgroups                             | 4 mono/2 stereo or better   |   |
| 4  | Mic inputs                            | MIC: 12   |   |
| 5  | Phantom Power                         | Phantom Power on all mic channels   |   |
| 6  | Fader                                 | 100mm   |   |
| 7  | <b>USB Interface</b>                  | 2-in/2-out  |   |
| 8  | <b>Bands</b>                          | 4-band  |   |
| 9  | <b>Supplied Accessories</b>           | All necessary cables and accessories should<br>be supplied for completeness of the system                                     |   |
| <b>18.SITC OF AMPLIFIED/POWERED SPEAKERS</b>             |                                       |   | 2 |
|  |                                       |   |   |
| 1  | <b>Type</b>                           | 2 Way Active Studio Monitor   |   |
| 2  | <b>Frequency Range</b>                | 50 Hz-18 kHz or better  |   |
| 3  | <b>Max Peak SPL</b>                   | 100 dB or better  |   |
| 5  | <b>LF Driver Size</b>                 | Min. 5" to Max. 6.6"  |   |
| 6  | <b>HF Driver Size</b>                 | 1" or better  |   |
| 7  | <b>Low-Frequency Amplifier Power</b>  | 40 watts or Better  |   |
| 8  | <b>High-Frequency Amplifier Power</b> | 40 watts or Better  |   |
| 9  | <b>Total Power Output</b>             | 80 Watt or Better   |   |
| 10   | <b>Input Types</b>                    | 1 x XLR, 1 x TRS Balanced   |   |
| 11   | <b>AC Input Voltage</b>               | 100-240 VAC +/- 10% 50/60 Hz  |   |
| 12   | <b>Supplied Accessories</b>           | All necessary cables and accessories should<br>be<br>supplied for completeness of the system                                  |   |
| <b>19. SITC OF DIGITAL SIGNAL PROCESSOR</b>              |                                       |   | 1 |
|  |                                       |   |   |

|    |                             |  |  |
|----|-----------------------------|--|--|
| 1  | <b>Feature</b>              | Networked Digital Signal Processor   |  |
| 2  | <b>Input</b>                | 12 Analog Inputs (with 48v Phantom Power per   |  |
| 3  | <b>Output</b>               | 8 Analog Outputs   |  |
| 4  | <b>GPIO</b>                 | 12 Control Inputs and 6 Logic Outputs for GPIO<br>Integration or better                |  |
| 5  | <b>Indicators</b>           | Front Panel LED Indication   |  |
| 6  | <b>Analog Inputs</b>        | 12 electronically balanced   |  |
| 7  | <b>Mic/Line Inputs</b>      | Nominal gain 0dB, electronically switchable up to +48dB,in                             |  |
| 8  | <b>CMRR</b>                 | 75dB at 1KHz or better   |  |
| 9  | <b>Phantom Power</b>        | 48V nominal, selectable per input  |  |
| 10 | <b>Analog Outputs</b>       | 8 electronically balanced  |  |
| 11 | <b>Frequency Response</b>   | 20Hz-20KHz or Better   |  |
| 12 | <b>Dynamic Range</b>        | 108dB typical or better  |  |
| 13 | <b>Control Ports</b>        | 12 inputs and 6 outputs  |  |
| 14 | <b>Control Network</b>      | RJ45 Ethernet connector  |  |
| 15 | <b>Supplied Accessories</b> | All necessary cables and accessories should be supplied for completeness of the system |  |

## 20. SITC OF AUDIO AMPLIFIER

1

|    |                              |  |  |
|----|------------------------------|--|--|
| 1  | Type                         | 4 channel amplifier with Network control, DSP, Monitoring Class D or better  |  |
| 2  | Output Power                 | 300W per output channel  |  |
| 3  | <b>Frequency response</b>    | 20Hz - 20kHz +/-0.5dB  |  |
| 4  | <b>Input Impedance</b>       | 20 k $\Omega$ balanced, 10 k $\Omega$ unbalanced   |  |
| 5  | <b>Crosstalk</b>             | 80dB or better   |  |
| 6  | <b>Voltage Gain</b>          | 4/8 $\Omega$ , 70Vrms and 100Vrms Operation : 34dB   |  |
| 7  | <b>Common Mode Rejection</b> | 70dB or better   |  |
| 8  | <b>S/N ratio</b>             | 104dB or better  |  |
| 9  | <b>DSP</b>                   | On-board Digital Signal Processor  |  |
| 10 | <b>Other Features</b>        | Input Router<br>Input Delay – Up to 1000ms<br>Input Parametric EQ – 8 band<br>Crossover<br>Output Parametric EQ – 8 band<br>Output Delay – Up to 100ms |  |
| 11 | <b>Supplied Accessories</b>  | All necessary cables and accessories should be supplied for completeness of the system   |  |

## 21.SITC OF TWO WAY LOUD SPEAKERS

4



|   |                                |  |          |
|---|--------------------------------|--|----------|
| <b>1</b>                                    | <b>Type</b>                    | Two-way Min. 5" to Max 6.5" Wall Mount Speaker   |          |
| <b>2</b>                                    | <b>Frequency range</b>         | 85 Hz – 18 kHz or Better   |          |
| <b>3</b>                                    | <b>Nominal coverage</b>        | 120°H x 120°V  |          |
| <b>4</b>                                    | <b>Components</b>              | 5.25 inch LF and 0.75 inch HF (+- 5%, )  |          |
| <b>5</b>                                    | <b>Power Capacity</b>          | 60 Watts   |          |
| <b>6</b>                                    | <b>Nominal impedance</b>       | 8 ohms   |          |
| <b>7</b>                                    | <b>Transformer Taps</b>        | 10 W, 5 W (& 2.5W @ 70V)   |          |
| <b>8</b>                                    | <b>SPL</b>                     | 100 dB at 8 Ohm or Better  |          |
| <b>9</b>                                    | <b>Accessories</b>             | Wall-mounting system   |          |
| <b>10</b>                                   | <b>Supplied Accessories</b>    | All necessary cables and accessories should be   |          |
| <b>22.SITC OF WIRELESS LAPEL MICROPHONE</b> |                                |  | <b>3</b> |
|   | Receiver                       |  |          |
| <b>1</b>                                    | Switching bandwidth            | 30 MHz or better   |          |
| <b>2</b>                                    | Sensitivity                    | 6.3 dB $\mu$ V / -100 dBm or better  |          |
| <b>3</b>                                    | Diversity System               | True Diversity / Microprocessor-controlled diversity                                   |          |
| <b>4</b>                                    | Modulation                     | Wideband FM  |          |
| <b>5</b>                                    | Audio bandwidth                | 40 – 18 000 Hz or better   |          |
| <b>6</b>                                    | T.H.D.                         | 0.3 % or better  |          |
| <b>7</b>                                    | SNR                            | 100 dB or better   |          |
| <b>8</b>                                    | Audio outputs                  | 1 x XLR sockets balanced, 1 x TS ¼" / 6.3 mm jack sockets                              |          |
|   | Transmitter (Battery Operated) |  |          |
| <b>9</b>                                    | Switching bandwidth            | ≤ 30 MHz   |          |
| <b>10</b>                                   | RF output power                | 10 to 50 mW  |          |
| <b>11</b>                                   | Modulation                     | Wideband FM  |          |
| <b>12</b>                                   | Audio input                    | TB3M / 3-pin mini-XLR socket or Compatible with Transmitter                            |          |
| <b>13</b>                                   | Audio bandwidth                | 40 – 18 000 Hz or better   |          |
| <b>14</b>                                   | T.H.D.                         | 0.7 % or better  |          |
| <b>15</b>                                   | SNR                            | 100 dB or better   |          |
|   | Lapel Mic                      |  |          |
| <b>16</b>                                   | Condenser lavalier microphone  | Cardioid Polar Pattern   |          |
| <b>17</b>                                   | Audio frequency bandwidth      | 150 - 18000 Hz   |          |
| <b>18</b>                                   | Supplied Accessories           | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>23. SITC OF LAPEL MICROPHONE</b>         |                                |  | <b>3</b> |
|   | Transducer Principle           | Pre-polarized condenser  |          |
| <b>2</b>                                    | Frequency Range                | 40–18,000 Hz or better   |          |
| <b>3</b>                                    | Polar Pattern                  | Omni-directional   |          |

|   |                                 |  |          |
|---|---------------------------------|--|----------|
| <b>4</b>  | Sensitivity                     | Sensitivity at 1,000 Hz: 7 mV/Pa   |          |
| <b>5</b>  | Sound Pressure Level for 1% THD | 110 dB or better   |          |
| <b>6</b>  | S/N Ratio                       | 60 dB or better  |          |
| <b>7</b>  | Phantom Power                   | 9–52 V phantom power   |          |
| <b>8</b>  | Supplied Accessories            | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>24. SITC OF WIRELESS HANDHELD MICROPHONE</b>   |                                 |  | <b>2</b> |
|   | Receiver                        |  |          |
| <b>1</b>  | Switching bandwidth             | ≤30 MHz  |          |
| <b>2</b>  | Sensitivity                     | 6.3 dBμV / -100 dBm or better  |          |
| <b>3</b>  | Diversity System                | True Diversity / Microprocessor-controlled diversity                                   |          |
| <b>4</b>  | Modulation                      | Wideband FM  |          |
| <b>5</b>  | Audio bandwidth                 | 40 – 18 000 Hz or better   |          |
| <b>6</b>  | T.H.D.                          | 0.3 % or better  |          |
| <b>7</b>  | SNR                             | 100 dB or better   |          |
| <b>8</b>  | Audio outputs                   | 1 x XLR sockets balanced, 1 x TS ¼" / 6.3 mm jack sockets unbalanced                   |          |
|   | Transmitter (Battery Operated)  |  |          |
| <b>9</b>  | Microphone capsules             | Dynamic (super cardioid)   |          |
| <b>10</b>   | Switching bandwidth             | ≤30 MHz  |          |
| <b>11</b>   | RF output power                 | 10 to 50 mW  |          |
| <b>12</b>   | Audio bandwidth                 | 40 – 18 000 Hz or better   |          |
| <b>13</b>   | Modulation                      | Wideband FM  |          |
| <b>14</b>   | Max. SPL                        | 120 dB or better   |          |
| <b>15</b>   | T.H.D.                          | 0.7 % or better  |          |
| <b>16</b>   | SNR                             | 120 dB or better   |          |
| <b>17</b>   | Supplied Accessories            | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>25. SITC OF EAR PIECE FOR ANCHOR</b>   |                                 |  | <b>3</b> |
|   |                                 |  |          |
| <b>1</b>  | Type                            | Anchor Ear Piece with acoustic Tube with 125Ω, 5' (1.5M) cord, and ¼" plug.            |          |
| <b>2</b>  | Supplied Accessories            | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>26. SITC OF WIRELESS LAPEL MICROPHONE FOR OUTDOOR WITH CAMERA MOUNTABLE RECIEVER</b> |                                 |  | <b>1</b> |
|   |                                 |  |          |

|           |                      |   |  |
|-----------|----------------------|---|--|
| <b>1</b>  | System Package       | Camera Mount Receiver preferably to support two microphone simultaneously, XLR output Cable, Body pack Transmitter with Lavalier and Handheld Microphones |  |
|           | System               |   |  |
| <b>2</b>  | Antenna              | High-Gain Antenna   |  |
| <b>3</b>  | Display              | Digital LCD Display w/ Multifunction Readout  |  |
| <b>4</b>  | Headphone Output     | Headphone Output on Receiver  |  |
|           | Receiver             |   |  |
| <b>5</b>  | Frequency Response   | 50Hz – 15kHz or Better  |  |
| <b>6</b>  | S/N Ratio            | 70 dB or better   |  |
| <b>7</b>  | Output Impedance     | 1k Ohms   |  |
| <b>8</b>  | Type of Reception    | FM  |  |
| <b>9</b>  | Oscillator           | PLL Synthesized   |  |
| <b>10</b> | Power                | Powered by 2 “AA” Batteries   |  |
|           | Transmitter          |   |  |
| <b>11</b> | Frequency Response   | 50Hz – 15kHz  |  |
| <b>12</b> | RF Power             | 25mW or better  |  |
| <b>13</b> | Oscillator           | PLL Synthesized   |  |
| <b>14</b> | Power                | Powered by 2 “AA” Batteries   |  |
| <b>15</b> | Microphone           | Omni-directional lapel microphone   |  |
| <b>16</b> | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system  |  |

## **27. SITC OF SHOTGUN MICROPHONE**

1

|          |                     |                                |  |
|----------|---------------------|--------------------------------|--|
|          |                     |                                |  |
| <b>1</b> | System              | Directional shotgun microphone |  |
| <b>2</b> | Directional Pattern | Cardioid                       |  |
| <b>3</b> | Maximum SPL         | 120 dB or more                 |  |
| <b>4</b> | Sensitivity         | -36dB or better                |  |
| <b>5</b> | Phantom Power       | Yes Required                   |  |
| <b>6</b> | Frequency Range     | 80Hz to 18kHz or Better        |  |
| <b>7</b> | Output Connection   | 3-pin XLR, balanced            |  |

## **28. SITC OF PROFESSIONAL HEADPHONE**

2

|          |                                  |  |  |
|----------|----------------------------------|--|--|
|          |                                  |  |  |
| <b>1</b> | <b>Headphone type</b>            | Closed-back  |  |
| <b>2</b> | <b>Wearing Style</b>             | On-ear   |  |
| <b>3</b> | <b>Audio frequency bandwidth</b> | 20 - 20000 Hz or Better                                    |  |
| <b>4</b> | <b>Sensitivity headphones</b>    | 100 dB SPL or Better                                       |  |
| <b>5</b> | <b>Rated Impedance</b>           | 55 Ohms or Better  |  |
| <b>6</b> | <b>Max Power</b>                 | 200mW or better  |  |
| <b>6</b> | <b>Audio Interface</b>           | Type Stereo plug: 3.5mm (1/8") with 6.3 mm (1/4") screw-on |  |

|   |                             |  |          |
|---|-----------------------------|--|----------|
| <b>7</b>                                      | <b>Supplied Accessories</b> | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>29. SITC OF AUDIO EMBEDDER</b>             |                             |  | <b>2</b> |
| <b>1</b>                                      | <b>Type</b>                 | SDI and 2-CH Audio Embedder  |          |
| <b>2</b>                                      | <b>Input</b>                | 1x 3G-SDI BNC or better  |          |
| <b>3</b>                                      | <b>Output</b>               | 1x 3G-SDI BNC or better  |          |
| <b>4</b>                                      | <b>Audio Inputs</b>         | RCA / Mini-XLR / XLR inputs  |          |
| <b>5</b>                                      | <b>Output</b>               | Two or more SDI outputs with embedded Audio  |          |
| <b>6</b>                                      | <b>Firmware Upgradation</b> | Feature Required   |          |
| <b>7</b>                                      | <b>Supplied Accessories</b> | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>30. SITC OF SDI DISTRIBUTION AMPLIFIER</b> |                             |  | <b>2</b> |
| <b>1</b>                                      | Input                       | 2 x 3G/HD/SD-SDI inputs  |          |
| <b>2</b>                                      | Output                      | 6 x 3G/HD/SD-SDI distribution outputs with re-clock                                    |          |
| <b>3</b>                                      | Audio                       | Should support embedded Audio SDI  |          |
| <b>4</b>                                      | Input Control               | Two input video sources should be controlled by A/B switch or GPI remote (non-locked)  |          |
|   | Supported video formats:    |  |          |
| <b>5</b>                                      | 3G-SDI                      | 1080P 50/59.94/60  |          |
| <b>6</b>                                      | HD-SDI                      | 1080P 23.98/24/25/30   |          |
| <b>7</b>                                      | SD-SDI                      | 525i / 625i  |          |
| <b>8</b>                                      | Firmware Upgradation        | Feature Required   |          |
| <b>9</b>                                      | Supplied Accessories        | All necessary cables and accessories should be supplied for completeness of the system |          |

|   |                      |  |          |
|---|----------------------|--|----------|
| <b>31. SITC OF SDI TO HDMI CONVERTER</b>                      |                      |  | <b>4</b> |
| <b>1</b>  | Input                | 1 x SDI, 1 x unbalanced audio  |          |
| <b>2</b>  | Output               | 1 x HDMI, 1 x SDI (loop through)   |          |
| <b>3</b>  | Output Resolutions   | Video output format is the same as the input format                                    |          |
| <b>4</b>  | Equalizer            | Should be supported  |          |
| <b>5</b>  | Reclock              | Should be supported  |          |
| <b>6</b>  | Firmware Upgradation | Feature Required   |          |
| <b>7</b>  | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system |          |
| <b>32. SITC OF SDI TO USB CONVERTER FOR ONLINE VC MEETING</b> |                      |  | <b>1</b> |

|          |  |   |  |
|----------|--|---|--|
| <b>1</b> | Type                                   | SDI-USB Capturing device  |  |
| <b>2</b> | Compatibility                          | Should be compatible with various operating systems   |  |
| <b>3</b> | Compatibility                          | Amcap, Google Plus Hangouts, OBS (Open Broadcast Software), Skype, VLC, Xsplit Broadcaster, Zoom.us Linux: VLC, OBS<br>Mac OS X: OBS, Quicktime player, VLC, Facetime |  |
| <b>4</b> | Input                                  | 1x HD/3G-SDI<br>Audio Input<br>SDI Embedded Audio & 3.5 mm stereo in  |  |
| <b>5</b> | Output                                 | 1x USB 3.0<br>1x SDI Loop out   |  |
| <b>6</b> | Supported Input & Output Video Formats | 1920 x 1080p<br>60/59.94/50/30/29.97/25/24/23.976<br>1920 x 1080i 60/59.94/50 (de-interlaced<br>out) 1280 x 720p 60/59.94/50  |  |
| <b>7</b> | Supplied Accessories                   | All necessary cables and accessories should be supplied for completeness of the system  |  |

### **33.SITC OF UP/DOWN/CROSS CONVERTER**

**3**

|          |                                 |  |  |
|----------|---------------------------------|--|--|
| <b>1</b> | Type                            | Up/Down/Cross Conversion   |  |
| <b>2</b> | Input                           | VGA x 1, HDMI x 1 , HD/SD-SDI x 1 or better  |  |
| <b>3</b> | Output                          | SDI x 2, HDMI x 1, SDI Loop thru BNC or better   |  |
| <b>4</b> | Supported video output formats: | 1080p60/59.94/50,<br>1080p30/29.97/25/24/23.98,<br>1080i60/59.94/50, 720p60/59.94/50, 525i, 625i |  |
| <b>5</b> | Audio Format (Input):           | Analog Audio L/R : stereo audio<br>SDI /<br>HDMI embedded audio                                  |  |
| <b>6</b> | Audio Format (Output):          | SDI embedded audio up to 8CH, 48KHz, PCM audio HDMI embedded audio up to 8CH, 48KHz, PCM audio   |  |
| <b>7</b> | Firmware Upgradation            | Feature Required   |  |
| <b>8</b> | Supplied Accessories            | All necessary cables and accessories should be supplied for completeness of the system           |  |

### **34. SITC OF 90 WATTS LED COOL LIGHTS FOR STUDIO**

**14**

|           |                       |  |  |
|-----------|-----------------------|--|--|
| <b>1</b>  | Type                  | 90W LED light 3200K, 5600K panel complete with 4 leaf barn door, 2 diffusers, normal operated yoke provided. |  |
| <b>2</b>  | Lamp power            | 90W or better  |  |
| <b>3</b>  | Color Temperature     | 3200K / 5600K  |  |
| <b>4</b>  | Dimming               | 0-100% through manual and DMX  |  |
| <b>5</b>  | CRI                   | CRI:> 90 or better   |  |
| <b>6</b>  | Beam Angle            | 30°  |  |
| <b>7</b>  | Operating Temperature | -30°C to +55°C   |  |
| <b>8</b>  | Protection Rating:    | IP 20  |  |
| <b>9</b>  | Mounting Accessory    | Die cast aluminium "C" clamps and Safety bond 1.5Mtr long with lock clip                                     |  |
| <b>10</b> | Supplied Accessories  | All necessary cables and accessories should be supplied for completeness of the system                       |  |

### **35. SITC OF 200 WATTS LED FRESNEL SPOT LIGHT FOR STUDIO**

4

|           |                       |  |  |
|-----------|-----------------------|--|--|
| <b>1</b>  | Type                  | 200 W LED light with color temperature 3200K/5600K panel complete with 4 leaf barndoor, normal operated yoke, Ceiling mounted, integrated dimmer enabled instant dimming from 0 to 100%. |  |
| <b>2</b>  | Lamp power            | 200W or better   |  |
| <b>3</b>  | Color Temperature     | 3200K /5600K   |  |
| <b>4</b>  | Dimming               | 0-100% through manual and DMX  |  |
| <b>5</b>  | CRI                   | CRI:> 90 or better   |  |
| <b>6</b>  | Beam Angle            | 10 -50 deg or 30- 60deg  |  |
| <b>7</b>  | Operating Temperature | -30°C to +55°C   |  |
| <b>8</b>  | Protection Rating:    | IP 20  |  |
| <b>9</b>  | Mounting Accessory    | Die cast aluminum "C" clamps and Safety bond 1.5Mtr long with lock clip  |  |
| <b>10</b> | Supplied Accessories  | All necessary cables and accessories should be supplied for completeness of the system   |  |

### **36. SITC OF DIMMER CONTROL**

1

|          |                 |  |  |
|----------|-----------------|--|--|
| <b>1</b> | Type            | Professional 24-Channel or better DMX Lighting Console |  |
| <b>2</b> | Feature Support | 24 preset channels, assignable to 512 DMX channels     |  |

|          |                      |  |  |
|----------|----------------------|--|--|
| <b>3</b> | Feature Support      | Dimmer control via DMX or analog output  |  |
| <b>4</b> | Feature Support      | Illuminated display/controls and Lamp socket for easy operation in dark stage environments |  |
| <b>5</b> | Accessories          | 1x8 DMX Distribution unit  |  |
| <b>6</b> | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system     |  |

## SECTION B - PRODUCTION STORAGE & POST PRODUCTION

| 37. SITC OF ENTERPRISE NAS WITH 48 TB STORAGE |                              |   | 1 |
|---|------------------------------|---|---|
| 1   | Form Factor                  | 2U 18-bay or above  |   |
| 2   | Processor                    | Intel® Xeon® 64-bit 4-core or Better,<br>32 GB DDR4 ECC DIMM Support Upto 128GB   |   |
| 2   | Onboard Host Ports           | 4 x 2.5Gb/s ports, 2 x10Gig ports 2 optional  |   |
| 3   | Number of Drives             | Initially populated with 8 x 6TB Drives. Must Have SSD Drive for Caching Provision to Expand with Additional Drives in remaining Vacant Hard disk slots                         |   |
| 4   | Drive Interface              | 6Gb/s SATA  |   |
| 5   | Disk Support                 | 3.5" SATA HDD & 2.5" SATA SSD<br>2.5" NVMe U.2 SSD<br>NVMe M.2 SSD  |   |
| 6   | File Level Protocol Support  | AFP / CIFS / FTP / iSCSI / NFS / WebDAV   |   |
| 7   | Block Level Protocol Support | FC, FCoE, iSCSI, SAS  |   |
| 8   | Object Protocol Support      | RESTful API   |   |
| 9   | Cloud Gateway                | Amazon S3, Microsoft Azure, Alibaba Cloud, OpenStack  |   |
| 10  | Feature Support              | Should Support Expansion Enclosures for Future Expansion  |   |
| 11  | RAID levels supported        | RAID 0,1,(1+0), 3, 5, 6, 10, 30, 50, 60   |   |
| 12  | Feature Support              | Online expansion by Adding new drives, Copying and replacing drives with drives of larger capacity, Hybrid SSD cache / Auto tiering   |   |
| 13  | Feature Support              | RAID migration Configurable stripe size and write policy per system, Snapshot / Local volume clone  |   |
| 14  | Network Configuration        | IPv6 support, Fixed or dynamic IP address, Dual Gigabit Ethernet with Jumbo Frame, Port trunking/ NIC teaming/ Link aggregation (IEEE 802.3ad), DHCP client, MPIO, MC/S support |   |



|    |                         |  |  |
|----|-------------------------|--|--|
| 15 | Access Right Management | User account management, Group management, Folder management (Folder and subfolder access control Web UI / Serial console / RESTful API / S.E.S. / LCM, Unify Data Management for Data Management  |  |
| 16 | Feature Support         | Folder quota, Comprehensive access control action items (All Controls, Read, Read & Run, Write, Modify, List), Support Windows Active Directory Authentication (Domain Users Login via CIFS/ SMB, AFP, FTP & file explorer), LDAP on Linux, SAN Supportable Via FC |  |
| 17 | OS Support              | Builtin QTS hero OS With Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 (including Hyper-V), Windows 7 SP1 / Windows 8.1, RedHat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer  |  |
| 18 | Accessories             | Should be supplied with 2 SFP+ Connectors to connect with Ethernet Switch on 10G network   |  |
| 19 | Certification Must Need | CE / FCC / BSMI or Better  |  |
| 20 | Features Must Need      | Enterprise NAS with Disk health analysis and failure prediction, SnapSync,   |  |

### **38. SITC OF 24 PORT ETHERNET**

1

|   |                      |  |  |
|---|----------------------|--|--|
| 1 | Type                 | 24 Port Ethernet Switch  |  |
| 2 | Layer                | Layer 2 Switch   |  |
| 3 | Network Media        | 22 x 10/100/1000 Mbps, 2 x 10G SFP+  |  |
| 4 | No of Ports          | 24 Port  |  |
| 5 | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system |  |

### **39. SITC OF WORKSTATION FOR VIDEO EDITING**

1

|   |      |  |  |
|---|------|--|--|
| 1 | Size | Dual 27-inch (diagonal) 4K display or Better |  |
|---|------|--|--|

|    |                      |  |  |
|----|----------------------|--|--|
| 2  | Processor            | <ul style="list-style-type: none"> <li>12-core CPU with 8 performance cores and 4 efficiency cores 16-core Neural Engine 400GB/s memory bandwidth</li> <li>Media engine Hardware-accelerated H.264, HEVC, ProRes and ProRes RAW</li> </ul> |  |
| 3  | RAM                  | 32GB unified memory  |  |
| 4  | Storage              | 512TB SSD  |  |
| 5  | Graphics Card        | 30-core GPU  |  |
| 6  | Ports                | 4x Thunderbolt Ports   |  |
| 7  | I/O Card             | Capture & Preview Card   |  |
| 8  | Software             | FCP x  |  |
| 9  | Media Storage        | 4TB Drive for Media Storage & Editing with TB3   |  |
| 10 | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system   |  |

| <b>40. SITC OF AMPLIFIED/POWERED SPEAKERS (PAIR)</b> |                      |  | 1 |
|--|----------------------|--|---|
| 1  | TRANSDUCERS          | LF: 135 mm (5.25 in) low frequency loudspeaker or better HF: 19 mm (.75 in) Polycarbonate dome tweeter or better |   |
| 2  | FREQUENCY RANGE      | 80 Hz - 20 kHz or better   |   |
| 3  | AMPLIFIER POWER      | 35 Watts per channel or better   |   |
| 4  | Supplied Accessories | All necessary cables and accessories should be supplied for completeness of the system                           |   |

| <b>41. SITC OF PROFESSIONAL HEADPHONE</b> |  |  | 1 |
|---|--|--|---|
|   |  |  |   |

|   |                           |  |  |
|---|---------------------------|--|--|
| 1 | Headphone type            | Closed-back  |  |
| 2 | Wearing Style             | On-ear   |  |
| 3 | Audio frequency bandwidth | 20 - 20000 Hz or Better  |  |
| 4 | Sensitivity headphones    | 100 dB SPL or Better   |  |
| 5 | Rated Impedance           | 55 Ohms or Better  |  |
| 6 | Max Power                 | 200mW or better  |  |
| 6 | Audio Interface           | TypeStereo plug: 3.5mm (1/8") with 6.3 mm (1/4") screw-on adapter                      |  |
| 7 | Supplied Accessories      | All necessary cables and accessories should be supplied for completeness of the system |  |

|                                      |                           |   |   |
|--------------------------------------|---------------------------|---|---|
| <b>42. SITC OF ONLINE UPS SYSTEM</b> |                           |   | 1 |
| 1                                    | UPS                       | 10 KVA 1:1 (1 Phase In: 1 Phase Out) On-Line UPS System with 30 Minutes Backup                    |   |
| 2                                    | Batteries and Accessories | Suitable rated batteries to provide backup for 30 Mins or more along with Battery Rack, interlink |   |
| 3                                    | Supplied Accessories      | All necessary cables and accessories should be supplied for completeness of the system            |   |

|   |                       |   |   |
|---|-----------------------|---|---|
| <b>43. SYSTEM INSTALLATION MATERIAL AND CHARGES</b> |                       |   | 1 |
| 1   | Cabling               | It is required to set-up the facility for HD/SD operations, therefore all the cabling should seamlessly support required operations.  |   |
| 2   | Installation Material | All installation materials including, power cables, interconnection cables, connectors and other accessories ( required for installation of the complete system shall be quoted                           |   |
| 3   | System Completeness   | Completeness of the system will be responsibility of the bidder<br>Any hardware and/or software including passive and active devices required for completeness of the technical workflow shall be quoted. |   |

|   |  |  |  |
|---|--|--|--|
|   |  | Bidder shall be responsible for technical and operational completeness of the entire system.   |  |
| 4 | Workflow Diagram                               | The bidder has to provide schematic diagram of the technical workflow to ensure the workability of the offered solution in all respects. |  |
| 5 | Any Additional Items for Complete the workflow | Bidder must mention any additional items require to complete the workflow with proper justification.                                     |  |

**Details of Bidder/Tenderer**

|     |   |  |
|-----|---|--|
| 1.  | Name of Tenderer /Company Name  |  |
| 2.  | Registration Number   |  |
| 3.  | Registration Address  |  |
| 4.  | Name of Partners/ Directors   |  |
| 5.  | Bidder Type ( Indian /Foreign)  |  |
| 6.  | City  |  |
| 7.  | State   |  |
| 8.  | Postal Code   |  |
| 9.  | Company's Establishment Year  |  |
| 10. | Company's Nature of Business  |  |
| 11. | Company Category ( Micro unit as per MSME/ Small Unit as per MSME/Medium Unit as per MSME/ Ancillary Unit/ Project affected person at this Company /SSI/Other                         |  |
| 12. | Contact Details(Enter Company Contact Person Details)   |  |
| 13. | Contact Name  |  |
| 14. | Date of Birth( DD/MM/YY)  |  |
| 15. | Correspondence Email (Correspondence Email ID can be same as your login ID if available on CPP Portal. All the mail correspondence will be sent only to the correspondence email ID). |  |
| 16. | Company Legal Status (Limited /Undertaking/ Joint Venture/ Partnership/Other).  |  |
| 17. | Designation   |  |
| 18. | Phone   |  |
| 19. | Mobile  |  |
| 20. | Registration Details  |  |
|     | a) PAN No. / Tan No. (Attach Proof)   |  |
|     | b) Service Tax Registration No.   |  |
|     | c) Sale Tax Registration No.  |  |

|     |   |        |
|-----|---|--------|
| 21. | Details OF Earned Money Deposit   |        |
|     | a) Amount Rupees  |        |
|     | b) Date of Transfer   |        |
|     | c) Bank transferred from  |        |
|     | d) Transaction ID   |        |
| 22. | Turnover Of Five previous financial years   |        |
|     | a) 2018-2019  |        |
|     | b) 2019-2020  |        |
|     | c) 2020-2021  |        |
|     | d) 2021-2022  |        |
|     | e) 2022-2023  |        |
| 23. | The bidder should have setup/commissioned at least two broadcast studios in the last five financial years (2017-2022) anywhere in India,          | Yes No |
| 24. | Whether Agency has been black listed by any of the Department/ Organization (Attach undertaking on the letter head of the Firm).                  |        |
| 25. | Firm must provide customer satisfaction letter from customers from Govt. Department / PSU / Autonomous Body, while submitting the technical bids. |        |

This is to certify that we have carefully read the contents at the tender document and fully understood all the terms and conditions therein and undertakes myself/ ourselves to abide by the same.

Place:

Signature of the Tenderer

Date:

Name of the Firm/Company

**ANNEXURE -III****Make and model No. of the equipment quoted**

| <b>Sl.<br/>No.</b> | <b>Item</b>  | <b>Quoted</b> |                  |
|--------------------|--|---------------|------------------|
|                    |  | <b>Make</b>   | <b>Model No.</b> |
| 1.                 | BROADCAST<br>QUALITY 1" 4K<br>CAMCORDER FOR<br>OUTDOOR AND<br>INDOOR SHOOT |               |                  |
| 2.                 | BROADCAST<br>QUALITY PTZ<br>CAMERA   |               |                  |
| 3.                 | REMOTE CONTORL<br>PANEL FOR PTZ<br>CAMERA                                  |               |                  |
| 4.                 | TRIPODS WITH<br>DOLLY FOR<br>CAMERA LOAD                                   |               |                  |
| 5.                 | TRIPOD WITH<br>DOLLY FOR<br>CAMERA AND TP<br>LOAD                          |               |                  |
| 6.                 | TELEPROMPTER<br>SYSTEM   |               |                  |
| 7.                 | LAPTOP<br>COMPUTER/LAPTOP<br>SYSTEMS FOR<br>TELEPROMPTER                   |               |                  |
| 8.                 | DIGITAL VIDEO<br>PRODUCTION<br>SWITCHER FOR TV<br>STUDIO                   |               |                  |
| 9.                 | 49" LED DISPLAY<br>PANEL FOR<br>PCR MULTIVIEW                              |               |                  |
| 10.                | 55" LED DISPLAY<br>PANEL FOR<br>STUDIO FOLDBACK                            |               |                  |
| 11.                | FULL HD<br>INTERACTIVE<br>DISPLAY PANEL                                    |               |                  |
| 12.                | FIELD MONITOR  |               |                  |

|     |   |  |  |
|-----|---|--|--|
| 13. | TRACKLESS 3D<br>VIRTUAL<br>STUDIO SYSTEM                                |  |  |
| 14. | AUDIO DELAY UNIT  |  |  |
| 15. | VIDEO STREAMING<br>ENCODER  |  |  |
| 16. | VIDEO<br>RECORDER<br>AND PLAYER   |  |  |
| 17. | 16 CHANNEL<br>ANALOG AUDIO<br>MIXER CONSOLE                             |  |  |
| 18. | AMPLIFIED/POWERED<br>SPEAKERS   |  |  |
| 19. | DIGITAL SIGNAL<br>PROCESSOR   |  |  |
| 20. | AUDIO AMPLIFIER   |  |  |
| 21. | TWO WAY LOUD<br>SPEAKERS  |  |  |
| 22. | WIRELESS LAPEL<br>MICROPHONE  |  |  |
| 23. | LAPEL MICROPHONE  |  |  |
| 24. | WIRELESS<br>HANDHELD<br>MICROPHONE                                      |  |  |
| 25. | EAR PIECE FOR<br>ANCHOR   |  |  |
| 26. | WIRELESS LAPEL<br>MICROPHONE<br>FOR OUTDOOR<br>WITH CAMERA<br>MOUNTABLE |  |  |



|     |   |  |  |
|-----|---|--|--|
| 27. | SHOTGUN<br>MICROPHONE   |  |  |
| 28. | PROFESSIONAL<br>HEADPHONE   |  |  |
| 29. | AUDIO EMBEDDER  |  |  |
| 30. | SDI DISTRIBUTION<br>AMPLIFIER   |  |  |
| 31. | SDI TO HDMI<br>CONVERTER  |  |  |
| 32. | SDI TO USB<br>CONVERTER FOR<br>ONLINE VC<br>MEETING                             |  |  |
| 33. | UP/DOWN/CROSS<br>CONVERTER  |  |  |
| 34. | PROFESSIONAL SSD<br>BASED DIGITAL<br>VIDEO RECORDER &<br>PLAYER WITH<br>INBUILT |  |  |
| 35. | 90 WATTS LED COOL<br>LIGHTS FOR STUDIO  |  |  |
| 36. | 200 WATTS LED<br>FRESNEL SPOT<br>LIGHT FOR STUDIO                               |  |  |
| 37. | DIMMER CONTROL  |  |  |
| 38. | ENTERPRISE NAS<br>WITH 48 TB<br>STORAGE   |  |  |
| 39. | 24 PORT ETHERNET<br>SWITCH  |  |  |

|     |                                   |  |  |
|-----|-----------------------------------|--|--|
| 40. | WORKSTATION FOR VIDEO EDITING     |  |  |
| 41. | AMPLIFIED/POWERED SPEAKERS (PAIR) |  |  |
| 42. | PROFESSIONAL HEADPHONE            |  |  |
| 43. | ONLINE UPS SYSTEM                 |  |  |
| 44. | Cabling                           |  |  |

**COMPLIANCE STATEMENT**

| <b>S.No</b><br>. | <b>Eligibility Criteria</b>   | <b>Whether<br/>complied<br/>Yes/No</b> | <b>Page No. in Bid<br/>Document<br/>Where details<br/>are available</b> |
|------------------|---|--|---|
| <b>1.</b>        | The bidder should be a company registered in India  |  |   |
| <b>2.</b>        | The bidder should be either the manufacturer (OEM) and/or the authorized representative for supply and maintenance of all the studio equipment mentioned in Annexure-I  |  |   |
| <b>3.</b>        | The bidder should have experience in setting up of Broadcast studios. This would include – (i) Marketing, Integration, Installation, Testing, Commissioning of equipment mentioned in Annexure-I and providing after sales service for the equipment and (ii) Preparing the studio and control room including the acoustic work |  |   |
| <b>4.</b>        | The bidder should have setup/commissioned at least two broadcast studios in the last five financial years (2018- 2023) anywhere in India,   |  |   |
| <b>5.</b>        | The annual turnover of the bidder company should not be less than Rs. 2Cr (Rs. Two Crore) per year for any three financial years during the previous five financial years (2018-2023). Proof of the same to be provided.  |  |   |

**CHECK LIST**

| <b>S No.</b> | <b>ITEM</b>  | <b>COMPLIED (YES/NO)</b> | <b>PAGE NO IN THE BID DOCUMENT</b> |
|--------------|--|--------------------------|------------------------------------|
| 1            | Have you enclosed the company particulars in the prescribed format as per Annexure -II   |                          |                                    |
| 2            | Have you prepared the bid in two separate parts – technical and commercial   |                          |                                    |
| 3            | Has the Earnest Money of Rs. 5 Lakhs Deposited if No Mentioned The Exception Certificate Number with attachment.   |                          |                                    |
| 4            | Have you clearly specified the make and model no. of the equipment quoted and enclosed the technical specification and product features  |                          |                                    |
| 5            | Have you enclosed certificate from the Original Equipment Manufacturer (OEM) for offering each of the equipment in the bid to Shri Vishwakarma Skill University and for supporting the equipment for a period of not less than 2 years including one year warranty from the date of commissioning/acceptance of the equipment. |                          |                                    |
| 6            | Have you enclosed the make and model No. of the equipment quoted as per Annexure-III   |                          |                                    |
| 7            | Have you enclosed Compliance Statement as per Annexure-IV  |                          |                                    |
| 8            | Have you enclosed declaration as per Annexure-VI   |                          |                                    |
| 9            | The offer should be valid for a minimum period of 90 days from the date of opening of the tender   |                          |                                    |

## **ANNEXURE-VI**

### **Declaration**

1. I, ..... Son / Daughter of Shri  
..... Proprietor / Partner / Director /  
Authorised Signatory of  
..... is / am competent  
to sign this declaration and  
execute this tender document.

2. I have carefully read and understood all the terms and conditions of the tender and hereby convey my acceptance of the same.

3. The information / documents furnished in the above application alongwith technical bid (technical specification / Bill of Material) are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.

4. I declare that my company / firm / agency is OEM authorized service Agency.  
{Authorized channel service agency must enclose valid authorization certificate from OEM for back end arrangement of SITC for supply of equipment}.

Date:

Signature of Authorized Person

Full Name:

**<< Organization Letter Head >>  
Training Requirement**

|    |                     |  |
|----|---------------------|--|
| 1. | Product Description | .....( <b>Tender Name</b> )  |
| 2. | No. of Attendees    | University staff and students  |
| 3. | No. of Days         | 1 Week or as per the requirement   |
| 4. | Type of Training    | Operational Training and Maintenance Training (Mechanical, Electrical and Electronics) |

Proper Training of 1 weeks (full day) or as per the requirement has to be given by the qualified engineer of the firm to the university staff and students without any additional cost.

**Signature of Bidder****Name:** .....**Designation:** .....**Organization Name:** .....**Contact No.:** .....

**ANNEXURE-VIII**

| <b>S.No</b> | <b>Item</b>   | <b>Unit Cost</b> | <b>Taxes</b> | <b>Total Unit Cost</b> | <b>Qty.</b> | <b>Total Cost</b> |
|-------------|---|------------------|--------------|------------------------|-------------|-------------------|
| <b>1.</b>   | BROADCAST QUALITY 1" 4K CAMCORDER FOR OUTDOOR AND INDOOR SHOOT              |                  |              |                        | 1           |                   |
| <b>2.</b>   | BROADCAST QUALITY PTZ CAMERA  |                  |              |                        | 4           |                   |
| <b>3.</b>   | REMOTE CONTORL PANEL FOR PTZ CAMERA   |                  |              |                        | 1           |                   |
| <b>4.</b>   | TRIPODS WITH DOLLY FOR CAMERA LOAD  |                  |              |                        | 3           |                   |
| <b>5.</b>   | TRIPOD WITH DOLLY FOR CAMERA AND TP LOAD                                    |                  |              |                        | 1           |                   |
| <b>6.</b>   | TELEPROMPTER SYSTEM   |                  |              |                        | 1           |                   |
| <b>7.</b>   | LAPTOP COMPUTER/LAPTOP SYSTEMS FOR TELEPROMPTER                             |                  |              |                        | 1           |                   |
| <b>8.</b>   | DIGITAL VIDEO PRODUCTION SWITCHER FOR TV STUDIO                             |                  |              |                        | 1           |                   |
| <b>9.</b>   | 49" LED DISPLAY PANEL FOR PCR MULTIVIEW                                     |                  |              |                        | 1           |                   |
| <b>10.</b>  | 55" LED DISPLAY PANEL FOR STUDIO FOLDBACK                                   |                  |              |                        | 2           |                   |
| <b>11.</b>  | FULL HD INTERACTIVE DISPLAY PANEL   |                  |              |                        | 1           |                   |
| <b>12.</b>  | FIELD MONITOR   |                  |              |                        | 1           |                   |
| <b>13.</b>  | TRACKLESS 3D VIRTUAL STUDIO SYSTEM  |                  |              |                        | 1           |                   |
| <b>14.</b>  | AUDIO DELAY UNIT  |                  |              |                        | 1           |                   |
| <b>15.</b>  | VIDEO STREAMING ENCODER   |                  |              |                        | 1           |                   |
| <b>16.</b>  | VIDEO RECORDER AND PLAYER   |                  |              |                        | 1           |                   |
| <b>17.</b>  | 16 CHANNEL ANALOG AUDIO MIXER CONSOLE                                       |                  |              |                        | 1           |                   |
| <b>18.</b>  | AMPLIFIED/POWERED SPEAKERS  |                  |              |                        | 2           |                   |
| <b>19.</b>  | DIGITAL SIGNAL PROCESSOR  |                  |              |                        | 1           |                   |
| <b>20.</b>  | AUDIO AMPLIFIER   |                  |              |                        | 1           |                   |
| <b>21.</b>  | TWO WAY LOUD SPEAKERS   |                  |              |                        | 4           |                   |
| <b>22.</b>  | WIRELESS LAPEL MICROPHONE   |                  |              |                        | 3           |                   |
| <b>23.</b>  | LAPEL MICROPHONE  |                  |              |                        | 3           |                   |
| <b>24.</b>  | WIRELESS HANDHELD MICROPHONE  |                  |              |                        | 2           |                   |
| <b>25.</b>  | EAR PIECE FOR ANCHOR  |                  |              |                        | 3           |                   |
| <b>26.</b>  | WIRELESS LAPEL MICROPHONE FOR OUTDOOR WITH CAMERA MOUNTABLE RECEIVER        |                  |              |                        | 1           |                   |
| <b>27.</b>  | SHOTGUN MICROPHONE  |                  |              |                        | 1           |                   |
| <b>28.</b>  | PROFESSIONAL HEADPHONE  |                  |              |                        | 2           |                   |
| <b>29.</b>  | AUDIO EMBEDDER  |                  |              |                        | 2           |                   |
| <b>30.</b>  | SDI DISTRIBUTION AMPLIFIER  |                  |              |                        | 2           |                   |
| <b>31.</b>  | SDI TO HDMI CONVERTER   |                  |              |                        | 4           |                   |
| <b>32.</b>  | SDI TO USB CONVERTER FOR ONLINE VC MEETING                                  |                  |              |                        | 1           |                   |
| <b>33.</b>  | UP/DOWN/CROSS CONVERTER   |                  |              |                        | 3           |                   |
| <b>34.</b>  | PROFESSIONAL SSD BASED DIGITAL VIDEO RECORDER & PLAYER WITH INBUILT DISPLAY |                  |              |                        | 1           |                   |
| <b>35.</b>  | 90 WATTS LED COOL LIGHTS FOR STUDIO   |                  |              |                        | 14          |                   |
| <b>36.</b>  | 200 WATTS LED FRESNEL SPOT LIGHT FOR STUDIO                                 |                  |              |                        | 4           |                   |

|            |  |  |  |  |   |  |
|------------|--|--|--|--|---|--|
| <b>37.</b> | DIMMER CONTROL                           |  |  |  | 1 |  |
| <b>38.</b> | ENTERPRISE NAS WITH 48 TB STORAGE        |  |  |  | 1 |  |
| <b>39.</b> | 24 PORT ETHERNET SWITCH                  |  |  |  | 1 |  |
| <b>40.</b> | WORKSTATION FOR VIDEO EDITING            |  |  |  | 1 |  |
| <b>41</b>  | AMPLIFIED/POWERED SPEAKERS (PAIR)        |  |  |  | 1 |  |
| <b>42.</b> | PROFESSIONAL HEADPHONE                   |  |  |  | 1 |  |
| <b>43.</b> | ONLINE UPS SYSTEM                        |  |  |  | 1 |  |
| <b>44.</b> | SYSTEM INSTALLATION MATERIAL AND CHARGES |  |  |  | 1 |  |



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

To,  
The Registrar,  
Shri Vishwakarma Skill University  
Dudhola, Palwal, Haryana

**LETTER OF GUARANTEE**

Whereas, Shri Vishwakarma Skill University, Dudhola, Palwal (Buyer) have invited Tenders vide Tender No.: .....  
dated: .....For purchase  
of.....

and whereas, the said tender document requires that any eligible successful Bidder (Seller) wishing to supply the Appliances / Machinery etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **“Shri Vishwakarma Skill University”** in the form of Bank Guarantee for Rupees. ....

and valid till ..... from the date of issue of Performance Bank Guarantee that may be submitted within 21 (Twenty-One) days from the date of acceptance as a successful Bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said Bidder (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the Appliances / machinery, etc. this bank shall pay to Shri Vishwakarma Skill University, Gurugram on demand and without protest or demur Rupees .....

This bank further agrees that the decision of Shri Vishwakarma Skill University (Buyer) as to whether the said Bidder (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 Bidder (Seller) and/ or Shri Vishwakarma Skill University (Buyer).

**Notwithstanding anything contained herein:**

- 1. Our liability under this Bank Guarantee shall not exceed Rupees. .... (Indian Rupees only).
- 2. This Bank Guarantee shall be valid up to ..... (date).
- 3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if Institute 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.

**Affidavit regarding Terms and Conditions completion of supply and installation & commissioning of Machine/Lab Appliances etc. in running condition within stipulated time frame**

**|| SPECIMEN AFFIDAVIT ||**

(On Non Judicial Stamp of Rs. 10/-)

In response to the Tender No. .... for .....  
(Name of the Tender) dated..... for quoting against the Tender as an  
Owner/Director/Proprietor of M/s.....

I/we \_\_\_\_\_ who is/are \_\_\_\_\_ (status in  
the firm/company) and competent for submissions of the affidavit on behalf of  
M/S \_\_\_\_\_ (Organization/Manufacturer/Authorized  
Dealer/Distributors/Agent) do hereby solemnly affirm an oath and state that:

We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

I/We hereby declare that our firm shall abide to all the terms & conditions as enumerated in the Tender document and supply the Machine/Lab Appliances/items etc. as per Technical Specification and installation & commissioning of the Machine/Lab Appliances in respective lab(s) in working condition within the time frame as enumerated in the tender document.

I/we further declare that if any delay is found in delivery/installation or not fulfil the terms and conditions, not supply the Appliances/items as per Technical Specifications and the offer is not accepted fully by our firm(s) the Performance Security or EMD furnished as per the tender document is liable to be forfeited unconditionally and no objection of being blacklisted in these circumstances.

**Dated**

**Signature with Seal of the Deponent (Bidder)**

I/we, \_\_\_\_\_ above deponent do hereby certify that the facts mentioned in above are correct to the best of my knowledge and belief, nothing has been concealed there in.

**Dated**

**Signature with Seal of the Deponent (Bidder)**

**Note:** *Affidavit duly notarized in original shall submit in the Office of Shri Vishwakarma Skill University, Haryana, Transit office: Plot No. 147, Sector 44, Gurugram (Haryana) on Technical Presentation day/date.*

**(AN AGREEMENT BETWEEN SHRI VISHWAKARMA SKILL UNIVERSITY AND THE SUPPLIER) \***

Shri Vishwakarma Skill University (SVSU), Enacted under Government of Haryana Act No.25 of 2016 having its transit office at Plot No-147, Sector-44, Gurugram, Haryana represented through its Authorized Signatory ..... **(Name of Officer)**,..... **(Designation of Officer)** (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as **SVSU** or Owner or the **First Party**.

And

Firm Name.....having its office at ..... through its authorized signatory..... **(Name & Post)**, (which expression shall unless repugnant to the context or meaning there off includes its successors and assigns) here in after referred to as execution Manufacturers/Authorized Dealers/Distributors/Agent or the **Second Party**.

Whereas SVSU has invited Tender No. ....for .....(Name of the Tender) dated.....and M/s..... (Firm Name) submitted its proposal in this regard. SVSU after considering its negotiation offer has decided to engage .....  
(Firm Name) as executing agency for Tender No.....for ..... (Name of the Tender) dated .....

Firm Name..... (execution **Agency**) is hereby agreed to take the Tender No. ....for ..... (Name of the Tender) at the quoted negotiation rates, terms and conditions contained the TENDER, Work Order/Purchase Order and duly communications of the above said work.

Now, therefore, in consideration of the mutual covenants herein contained, it is hereby agreed between the parties as follows: -

The agreement shall come into force immediately after signing of this agreement by both the parties and shall remain valid until the final completion of the job inclusive of warranty period or cancelled earlier by the Shri Vishwakarma Skill University, Haryana as per the time schedule prescribed in the tender document.

All the terms and conditions and Technical specifications contained in the Tender No. .... for ..... (Name of the Tender) dated..... shall be the part of this agreement.

Firm Name..... (execution **Agency**) hereby declare that I/we shall remain bound and abide by the rates, terms and conditions and technical specifications of the aforesaid as well as TENDER, Work Order/Purchase Order and due communications of the above said work.

In Witness Whereof, the parties here to have caused this agreement to be signed in their respective names as of this day and year first above written.

**Signed by**

**First Party: SVSU, Palwal**  
**Signature with seal**  
**Date & Place**

**Second Party:**  
**Signature with seal**  
**Date & Place**

**In presence of (Witnesses)**

1.

1.

2.

2.

**\*Note-This Contract is to be Signed on Rs. 100/- Non Judicial Stamp paper within 15 days after receiving of LOA/LOI by the bidder/supplier from buyer.**