

National Film Archive of India

Ministry of Information and Broadcasting

Government of India

Notice Inviting (Express) Tender for “Supply, Installation, Testing and Commissioning of Picture Quality Check Lab Equipment at NFAI”

Ref. No. 40/33/2021-1 dated 17th December 2021

Attention is invited to the Advertisement on All India basis inviting response to the **Notice Inviting (Express) Tender for “Supply, Installation, Testing and Commissioning of Picture Quality Check Lab Equipment at NFAI”**

The said NIT was also uploaded on the NFAI’s website (www.nfai.gov.in) and Procurement website of Government of India (<https://eprocure.gov.in/cppp/>)

This document covers the changes in the schedule details. The Corrigendum shall be construed as a part of the NIT and it shall be the responsibility of the Bidder to read carefully and understand the changes/ additions mentioned it.

The rest of the content as mentioned in the NIT shall remain unchanged.

Sd/-

Shri. H. L. Guru Prasad
Deputy Director cum Curator,
NFAI

Corrigendum 1

| Description | Detailed Information |
|--------------------------------|---|
| Name of Project | Notice Inviting (Express) Tender for Supply, Installation, Testing and Commissioning of Picture Quality Check Lab Equipment at NFAI |
| Tender Reference Number | 40/33/21-1 |
| Date of publishing the NIT | December 17, 2021 |
| Corrigendum Published based on | Clarifications to the NIT |

1 Under the Cover page for the Express Tender, following changes have been made:

The bid should be submitted to Deputy Director cum Curator, NFAI, Law College Road, Pune - 411004 latest by 3.00 P.M. on or before 27/12/2021 in a sealed envelope super-scribing on envelope "Supply, Installation, Testing and Commissioning of Picture Quality Check Lab Equipment at NFAI" along with the terms and conditions of payment and delivery etc.

For any tender related queries please contact-
E-Mail- osdnfhn@gmail.com

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2 Under Section 2 of the Express Tender, following additions have been made:

Manufacturer's Authorization Form (MAF) for major components to be commissioned for the project such as File System Data Manager and Centralized Storage - Annexure 13

3 Annexure 13 has been added to the Express Tender document:

Annexure 13: Manufacturer's Authorization Form (MAF)
(This form has to be provided by the OEMs of the products proposed)

Letter No.
Date:

To,
Dy. Director cum Curator,
National Film Archive of India,
Law College Road,
Pune - 411 004.

Subject: OEM Authorization Letter

Ref: NIT from NFAI Ref: 40/33/21-1 dated 17 December 2021

Dear Sir:

We who are established and reputable manufacturers / producers of having factories / development facilities at (address of factory / facility) do hereby authorize M/s (Name and address of Bidder) to submit a Bid, and sign the contract with you against the above Bid Invitation.

We hereby extend our full guarantee and warranty for the Solution, Products and Services offered by the above firm against this Bid Invitation.

We also undertake to provide any or all of the following materials, notifications, and information pertaining to the Products manufactured or distributed by the Supplier:

- a. Such Products as the Employer may opt to purchase from the Supplier, provided, that this option shall not relieve the Supplier of any warranty obligations under the Contract; and
- b. In the event of termination of production of such Products:
 - i. Advance notification to the Employer of the pending termination, in sufficient time to permit the Employer to procure needed requirements; and
 - ii. Following such termination, furnishing at no cost to the Employer, the blueprints, design documents, operations manuals, standards, source codes and specifications of the Products, if requested.

We duly authorize the said bidder / prime bidder to act on our behalf in fulfilling all installations, Technical support and maintenance obligations required by the contract.

Yours faithfully,
 (Name)
 (Name of Manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. The Bidder in its Bid should include it in original.

4 Under Annexure 1 - Template for Commercial Proposal for Supply, Installation, Testing and Commissioning of Picture Quality Check Lab Equipment at NFAI, following changes have been made:

| # | Item | Description for Picture QC Setup | QTY | Per Unit Rate (in INR) | Total (in INR) |
|-----|-------------|---|-----|------------------------|----------------|
| (A) | (B) | (C) | (D) | (E) | (F) = D * E |
| 1 | Workstation | 12-core Intel Xeon W processor, up to 4.4GHz or higher 96GB 2933MHz DDR4 ECC memory 1TB SSD +1 TB SSD storage 32GB graphic card Mouse, Rails, Keyboard with Numeric Keypad, macOS Big Sur or higher | 6 | | |
| 2 | GUI Monitor | 27-inch WQHD (2560x 1440) IPS monitor with frameless design | 6 | | |

| # | Item | Description for Picture QC Setup | QTY | Per Unit Rate (in INR) | Total (in INR) |
|-----|-------------------------------|--|-----|------------------------|----------------|
| (A) | (B) | (C) | (D) | (E) | (F) = D * E |
| | | International color standard 100% sRGB and 100% Rec. 709 wide color gamut Colman Verified with factory calibrated for excellent Delta E < 2 color accuracy ProArt Preset and ProArt Palette provide numerous adjustable color parameters 75Hz refresh rate and Adaptive-Sync technology (48~75Hz) to animated content with fast action and eliminate screen tearing including Mini DisplayPort, DisplayPort, HDMI, dual-link DVI-D, audio in and earphone jack, plus four USB 3.0 ports Ergonomic stand with tilt | | | |
| 3 | Reference Monitor | 31" Reference monitor- 31.1" In-Plane Switching (IPS) HDR Panel DisplayPort HDMI 4096 x 2160 Native Resolution 1500:1 Static Contrast Ratio 350 cd/m² Brightness 178°/178° Viewing Angles 9 ms Response Time (GtG) 10-Bit Support for 1.07 Billion Colors 99% Adobe RGB & 98% DCI-P3 Color Spaces Built-In Calibration Sensor & Software | 6 | | |
| 4 | Capture and Playback Solution | Thunderbolt 3 capture and playback solution broadcast quality 8 and 10-bit high dynamic range capture in all formats up to 4K DCI at 60p, and 12-bit high dynamic range capture in all formats up to 4K DCI at 30p. Plus, the built in SD card reader | 6 | | |
| 5 | External GPU | External GPU Compatible with Mac with Thunderbolt 3 ports Radeon Pro 580 graphics processor with 8GB of GDDR5 memory Two Thunderbolt 3 ports Four USB 3 ports One HDMI 2.0 port 85W power delivery | 6 | | |
| 6 | Software | Studio Color grading software Advanced HDR grading tool Color warper for refined grading Targeted grading with Magic Mask Advanced color management wide-gamut color space Updated 3D professional scopes Additional LUT support | 6 | | |

| # | Item | Description for Picture QC Setup | QTY | Per Unit Rate (in INR) | Total (in INR) |
|-----|-------------------------------------|--|-----|------------------------|----------------|
| (A) | (B) | (C) | (D) | (E) | (F) = D * E |
| | | New Viewer Wipe modes | | | |
| 7 | Connector Cable | Thunderbolt Cable -TB 3 | 6 | | |
| 8 | Headphones | Over Ear Closed-Back Professional Monitoring Headphones | 6 | | |
| 9 | Edit Keyboard with Dial with Clutch | Edit keyboard with dial with clutch, USB C powered, Built into the Speed Editor is a Search Dial reminiscent of the jog wheel that editors have used for decades to shuttle through footage. Combined with push-button transport controls, the Search Dial allows you to jog through your footage and trim in and out points. The Search Dial is machined from metal and has a weighted feel for slowly jogging through your footage or shuttling through by spinning the dial. | 6 | | |
| 10 | Centralized Storage | Storage compatible with EFS file system, should be mountable on EFS as NODE with No parity. Should also act as an individual storage and virtual volumes can be created. Should able to deliver 6 nos of 4K streams out of combined storage, (4K 12bit uncompressed.) total of 384 TB RAW (320 TB Usable) - 16 bay server system with Metadata Controller and accessories. Distributed file system and multiple levels of hardware redundancy ensure the highest level of data protection Multiple levels of RAID that increase both reliability and performance High Availability options to increase uptime with 'no single point of failure' infrastructure Choice of file protection mechanisms to suit content value and budget Grow to 5PB and beyond Fault tolerant with the addition of a second metadata controller, implements advanced IPMI-fencing and PDU-fencing mechanism. | 1 | | |
| 11 | File System Data Manager | File System to File System Sync, scalable, wide area, data management services platform - with controller and Server hardware. Data managers perform the actual tasks to index, analyze (visibility) or sync, move, backup, archive, tier data (mobility). It can be installed across central, on-premise, remote, field or cloud machines. Data managers maintain no state, communicating with the central controller for job information, reporting metadata and progress. Data managers can be scaled to hundreds of systems as needed. | 1 | | |

| # | Item | Description for Picture QC Setup | QTY | Per Unit Rate (in INR) | Total (in INR) |
|-----|------------------------------|--|-----|------------------------|----------------|
| (A) | (B) | (C) | (D) | (E) | (F) = D * E |
| 12 | UPS | Supplying Installing Testing and Commissioning of Microprocessor Controlled 30 kVA (27 Kilo Watts) Online Double Conversion UPS Systems with IGBT based Rectifier & Inversion Circuit having I/P Power Factor > 0.99, THDi (Total Harmonic Distortion in current) < 5%, Efficiency upto 94% in Double Conversion Mode, suitable DP battery breakers with enclosures, UPS to Battery Cable up to 5 metres, with 3 Ph input and 3 Ph output, complete with standard features, along with necessary sealed maintenance free batteries suitable for approx. 15 minutes backup on full 30 kVA load along with fabricated & powder coated cabinet to house the battery bank with battery interconnection link sets (Note: Warranty of 1 year on UPS and 2 years on Battery to be produced) | 1 | | |
| 13 | Chair | Ergonomic Chair | 9 | | |
| 14 | Installation & Commissioning | Supply, Installation, Testing and Commissioning of the entire setup | - | | |
| 15 | AMC | Annual maintenance for a period of one year beyond the initial 1 year warranty | 1 | | |
| 16 | GST | GST (As applicable) | 1 | | |
| 17 | Grand Total | (In figures excluding GST) (1+2+3+4+5+6+7+8+9+10+11+12+13+14+15) | 1 | | |
| 18 | Grand Total | (In figures including GST) (1+2+3+4+5+6+7+8+9+10+11+12+13+14+15+16) | 1 | | |
| 19 | Grand Total | (In words excluding GST) | 1 | | |
| 20 | Grand Total | (In words including GST) | 1 | | |

5 Under Annexure 12 - Compliance sheet for Equipment proposed, following changes have been made:

| # | Item | Description for Picture QC Setup | QTY | Suggested OEMs* | Proposed Equipment by Bidder | Compliance to NFAI's requirement (Yes/ No) |
|---|-------------|--|-----|-----------------------------|------------------------------|--|
| 1 | Workstation | 12-core Intel Xeon W processor, up to 4.4GHz or higher 96GB 2933MHz DDR4 ECC memory 1TB SSD +1 TB SSD storage 32GB graphic card Mouse, Rails, Keyboard with Numeric Keypad, macOS Big Sur or higher | 6 | Apple Mac Pro or equivalent | | |
| 2 | GUI Monitor | 27-inch WQHD (2560x 1440) IPS monitor with frameless design International color standard 100% sRGB and 100% Rec. 709 wide color gamut Colman Verified with factory calibrated for excellent Delta E < 2 color accuracy | 6 | Asus, Dell or equivalent | | |

| # | Item | Description for Picture QC Setup | QTY | Suggested OEMs* | Proposed Equipment by Bidder | Compliance to NFAI's requirement (Yes/ No) |
|---|-------------------------------|--|-----|--|------------------------------|--|
| | | ProArt Preset and ProArt Palette provide numerous adjustable color parameters 75Hz refresh rate and Adaptive-Sync technology (48~75Hz) to animated content with fast action and eliminate screen tearing including Mini DisplayPort, DisplayPort, HDMI, dual-link DVI-D, audio in and earphone jack, plus four USB 3.0 ports Ergonomic stand with tilt | | | | |
| 3 | Reference Monitor | 31" Reference monitor- 31.1" In-Plane Switching (IPS) HDR Panel DisplayPort HDMI 4096 x 2160 Native Resolution 1500:1 Static Contrast Ratio 350 cd/m ² Brightness 178°/178° Viewing Angles 9 ms Response Time (GtG) 10-Bit Support for 1.07 Billion Colors 99% Adobe RGB & 98% DCI-P3 Color Spaces Built-In Calibration Sensor & Software | 6 | Eizo ColorEdge CG319X or equivalent | | |
| 4 | Capture and Playback Solution | Thunderbolt 3 capture and playback solution broadcast quality 8 and 10-bit high dynamic range capture in all formats up to 4K DCI at 60p, and 12-bit high dynamic range capture in all formats up to 4K DCI at 30p. Plus, the built in SD card reader | 6 | BDLKULSRMI N4K UltraStudio 4K Mini or equivalent | | |
| 5 | External GPU | External GPU Compatible with Mac with Thunderbolt 3 ports Radeon Pro 580 graphics processor with 8GB of GDDR5 memory Two Thunderbolt 3 ports Four USB 3 ports One HDMI 2.0 port 85W power delivery | 6 | Blackmagic eGPU Pro Vega 56 DV/TEGPU02 VEGA 56/AU or equivalent | | |
| 6 | Software | Studio Color grading software Advanced HDR grading tool Color warper for refined grading Targeted grading with Magic Mask Advanced color management wide-gamut color space Updated 3D professional scopes Additional LUT support New Viewer Wipe modes | 6 | DaVinci Resolve 17 or equivalent | | |
| 7 | Connector Cable | Thunderbolt Cable -TB 3 | 6 | Apple or equivalent | | |

| # | Item | Description for Picture QC Setup | QTY | Suggested OEMs* | Proposed Equipment by Bidder | Compliance to NFAI's requirement (Yes/ No) |
|----|-------------------------------------|--|-----|---|------------------------------|--|
| 8 | Headphones | Over Ear Closed-Back Professional Monitoring Headphones | 6 | Sennheiser HD 300 Pro or equivalent | | |
| 9 | Edit Keyboard with Dial with Clutch | Edit keyboard with dial with clutch, USB C powered, Built into the Speed Editor is a Search Dial reminiscent of the jog wheel that editors have used for decades to shuttle through footage. Combined with push-button transport controls, the Search Dial allows you to jog through your footage and trim in and out points. The Search Dial is machined from metal and has a weighted feel for slowly jogging through your footage or shuttling through by spinning the dial. | 6 | DaVinci Resolve Speed Editor or equivalent | | |
| 10 | Centralized Storage | Storage compatible with EFS file system, should be mountable on EFS as NODE with No parity. Should also act as an individual storage and virtual volumes can be created. Should able to deliver 6 nos of 4K streams out of combined storage, (4K 12bit uncompressed.) total of 384 TB RAW (320 TB Usable) - 16 bay server system with Metadata Controller and accessories. Distributed file system and multiple levels of hardware redundancy ensure the highest level of data protection Multiple levels of RAID that increase both reliability and performance High Availability options to increase uptime with 'no single point of failure' infrastructure Choice of file protection mechanisms to suit content value and budget Grow to 5PB and beyond Fault tolerant with the addition of a second metadata controller, implements advanced IPMI-fencing and PDU-fencing mechanism. | 1 | EditShare EFS 450 Bundle or equivalent | | |
| 11 | File System Data Manager | File System to File System Sync, scalable, wide area, data management services platform - with controller and Server hardware. Data managers perform the actual tasks to index, analyze (visibility) or sync, move, backup, archive, tier data (mobility). It can be installed across central, on-premise, remote, field or cloud machines. Data managers maintain no state, communicating with the central controller for job information, reporting metadata and progress. Data managers can be scaled to hundreds of systems as needed. | 1 | DNAfabric LAN sync feature and DNAfabric Controller or equivalent | | |
| 12 | UPS | Supplying Installing Testing and Commissioning of Microprocessor Controlled 30 kVA (27 Kilo Watts) Online Double Conversion UPS Systems with IGBT based Rectifier & Inversion Circuit having I/P Power Factor > 0.99, THDi (Total Harmonic Distortion in current) < 5%, Efficiency upto 94% in Double Conversion Mode, suitable DP battery breakers with enclosures, UPS to Battery Cable up to 5 metres, with 3 Ph input and 3 Ph output, complete with standard features, along with necessary sealed maintenance free batteries suitable for approx. 15 minutes backup on full 30 kVA load along with fabricated & powder coated cabinet to house the battery bank with battery interconnection link sets (Note: Warranty of 1 year on UPS and 2 years on Battery to be produced) | 1 | (Battery - Exide/ Base/ Amron/ Quanta/ Rocket or equivalent company approved make) (Make: such as Eaton 93E Series/ Vertiv (Emerson)/ APC Make) | | |

| # | Item | Description for Picture QC Setup | QTY | Suggested OEMs* | Proposed Equipment by Bidder | Compliance to NFAI's requirement (Yes/ No) |
|----|-------|----------------------------------|-----|-----------------|------------------------------|--|
| 13 | Chair | Ergonomic Chair | 9 | - | | |

Note: All the items listed under the column of "Suggested OEMs" are indicative in nature and bidders can suggest equivalent products upon site visit.