



MINISTÉRIO DO PLANEAMENTO  
E INVESTIMENTO ESTRATÉGICO  
IX GOVERNO CONSTITUCIONAL



Comissão Nacional de Aproveitamento

**Addendum No. 3**  
**24 April 2024**

**SUPPLY AND INSTALLATION OF FULL NDI-4K TV STUDIO PRODUCTION AND  
FULL AOIP FM STUDIO PRODUCTION**

**TENDER/010/SECOM-2024**

This Addendum No.3 is issued to amend certain items in the Bidding Document in accordance with Clause 8 of the Instruction to Bidders for **TENDER/010/SECOM-2024 Supply and Installation of Full NDI-4K TV Studio Production and full AOIP FM Studio Production**

| No. | Part of the Bidding Document  | As per Addendum No.2  | As per this Addendum No. 3  |
|-----|---|---|---|
| 1.  | Part I, Section 2:<br>Bid data Sheet and<br>ITB 21.1<br><br>Page no.4 | For bid submission purposes only, the Employer's address is:<br><b>TENDER BOX</b><br><b>National Procurement Commission</b><br><b>Avenida de Balide, Dili, Timor-Leste</b><br>The deadline for bid submission is:<br><br>Date: 25 April 2024 Time: 15:00 hours local time | For bid submission purposes only, the Employer's address is:<br><b>TENDER BOX</b><br><b>National Procurement Commission</b><br><b>Avenida de Balide, Dili, Timor-Leste</b><br>The deadline for bid submission is:<br><br>Date: <b>26 April 2024</b> Time: <b>15:00 hours local time</b> |
| 2.  | Part I, Section 2:<br>Bid data Sheet and<br>ITB 23.1<br><br>Page no.4 | The Technical Bid opening shall take place at the office of the:<br><br><b>National Procurement Commission</b><br><b>Avenida de Balide, Dili, Timor-Leste</b><br><br>Date: 25 April 2024 Time: 15:00 hours local time   | The Technical Bid opening shall take place at the office of the:<br><br><b>National Procurement Commission</b><br><b>Avenida de Balide, Dili, Timor-Leste</b><br><br>Date: <b>26 April 2024</b> Time: <b>15:00 hours local time</b>   |

  
**Hermingardo Albano Soares**  
Executive Director of NPC



**Addendum No. 2**

**11 April 2024**

**SUPPLY AND INSTALLATION OF FULL NDI-4K TV STUDIO PRODUCTION AND  
FULL AOIP FM STUDIO PRODUCTION**

**TENDER/010/SECOM-2024**

This Addendum No.2 is issued to amend certain items in the Bidding Document in accordance with Clause 8 of the Instruction to Bidders for **TENDER/010/SECOM-2024 Supply and Installation of Full NDI-4K TV Studio Production and full AOIP FM Studio Production**

| No. | Part of the Bidding Document                            | As per this Original Bidding Document   | As per this Addendum No. 2  |
|-----|---|---|---|
| 1.  | Part I, Section 2:<br>Bid data Sheet,<br>ITB 21.1       | For bid submission purposes only, the Employer's address is:<br><b>TENDER BOX National Procurement Commission Avenida de Balide, Dili, Timor-Leste</b><br>The deadline for bid submission is:<br><br>Date: 15 April 2024 Time: 15:00 hours local time | For bid submission purposes only, the Employer's address is:<br><b>TENDER BOX National Procurement Commission Avenida de Balide, Dili, Timor-Leste</b><br>The deadline for bid submission is:<br><br>Date: <b>25 April 2024</b> Time: <b>15:00 hours local time</b> |
| 2.  | Part I, Section 2:<br>Bid data Sheet,<br>ITB 23.1       | The Technical Bid opening shall take place at the office of the:<br><br><b>National Procurement Commission Avenida de Balide, Dili, Timor-Leste</b><br><br>Date: 15 April 2024 Time: 15:00 hours local time   | The Technical Bid opening shall take place at the office of the:<br><br><b>National Procurement Commission Avenida de Balide, Dili, Timor-Leste</b><br><br>Date: <b>25 April 2024</b> Time: <b>15:00 hours local time</b>   |
| 2.  | Part I, Section 2:<br>Bid data Sheet,<br>Special Clause | Maximum budget for the assignment:<br><b>USD 1,179,787.40 (inclusive of Taxes)</b><br>The Employer may disqualify evaluated price bids exceeding maximum budget.  | Maximum budget for the assignment:<br><b>USD 1,179,212.06 (inclusive of Taxes)</b> The Employer may disqualify evaluated price bids exceeding maximum budget.   |
| 3.  | Part I, Section 4:<br>Bidding Form                      | Price Schedule<br>Project: <b>Supply and Installation for Full NDI-4K TV Studio Production and Full AOIP FM Studio Production (TENDER/010/SECOM-2024)</b><br>Location: <b>Dili</b>  | Price Schedule<br>Project: <b>Supply and Installation for Full NDI-4K TV Studio Production and Full AOIP FM Studio Production (TENDER/010/SECOM-2024)</b> Location: <b>Dili</b><br><br><b>AS ATTACHED</b>   |

## PRICE SCHEDULE

Project: **Supply and Installation for Full NDI-4K TV Studio Production and Full AOIP FM Studio Production (TENDER/010/SECOM-2024)**

Location: **Dili**

### **A.1. 4K LIVE STUDIO PRODUCTION**

| No                      |     | Item Specification                                    | Model           | Qty | Unit Price | Total Price |
|-------------------------|-----|---|-----------------|-----|------------|-------------|
| <b>A. CAMERA SYSTEM</b> |     |   |                 |     |            |             |
| 1                       | a   | Studio Fiber Camera Head                              | AK-HC3900       | 2   |            |             |
|                         | b   | Camera Control Unit                                   | AK-HCU250       | 2   |            |             |
|                         | b.1 | 12G-SDI Interface Kit                                 | AK-HUC01        | 2   |            |             |
|                         | b.2 | NDI EFP EC-N200-4K (Tally Light & Headset INCLUDED)   | EC-N200-4K      | 4   |            |             |
|                         | c   | Large Viewfinder                                      | AK-HVF75        | 2   |            |             |
|                         | d   | Remote Control Panel                                  | AK-HRP250       | 1   |            |             |
| 2                       | a   | 4K PTZ NDI Camera                                     | PTC-305NDI      | 1   |            |             |
| 3                       | a   | 2/3" ENG/EFP 4K UHD Zoom Lens with Full Servo Control | CJ18EX7.6B IASE | 2   |            |             |
|                         | b   | Semi-Servo Kit (Focus/Zoom Controller)                | MS210-D         | 2   |            |             |
| 4                       | a   | 17" Prompter System                                   | LC-17E          | 1   |            |             |
|                         | b   | Wireless Handheld Scroll Control                      | R400            | 1   |            |             |
|                         | c   | Desktop Scroll Control                                | Shuttle Pro V2  | 1   |            |             |
|                         | d   | CueiT Prompting Software **                           | Script-Q        | 1   |            |             |

| No                          |   | Item Specification   | Model                    | Qty | Unit Price | Total Price |
|-----------------------------|---|--|--------------------------|-----|------------|-------------|
|                             | e | <b>Teleprompter Laptop</b><br>**<br>Intel Core i5-1155G7 ( up too 4.5 GHz)<br>Windows 11 Home<br>14" Diagonal, FHD (1920 x 1080),<br>IPS, Micro-Edge,<br>Brightview, 250 nits<br>16 GB DDR4 - 2666<br>SDRAM<br>512 GB PCIe NVMe<br>M.2 SSD<br>Intel IrisX Graphics | -                        | 1   |            |             |
| 5                           | a | 25Kg Studio Pedestal System  | EP880SK ( 28KG PAYLOAD ) | 2   |            |             |
|                             | b | Quick Release Tripod Adaptor   | VCT-14                   | 2   |            |             |
| 6                           | a | 7"3D LUT 4K HDMI & SDI Monitor   | CM-S75F Pro Pack         | 2   |            |             |
|                             | b | 7" Sunshade  | INCLUDED in Pro Pack     |     |            |             |
|                             | c | (7800mAH 7.4V) Lithium-Ion Battery   | S-8972                   | 4   |            |             |
|                             | d | Charger  | S-3602F                  | 1   |            |             |
| 7                           | a | Two-Stage Aluminium Tripod System  | Tower 100                | 1   |            |             |
|                             | b | Studio Dolly   | Swit Dolly               | 1   |            |             |
| 8                           | a | Tally Light  | INCLUDED in EC-N200-4K   |     |            |             |
| 9                           | a | POE LAN Switch   | GS510TPP                 | 1   |            |             |
| <b>SUB TOTAL</b>            |   |  |                          |     |            |             |
| <b>B. PRODUCTION SYSTEM</b> |   |  |                          |     |            |             |
| 1                           | a | 4K IP Production Switcher **   | Tricaster TC1            | 1   |            |             |
|                             | b | Newtek Control Panel   | Tricaster TC1SP          | 1   |            |             |
| 2                           | a | 34x34 3G NDI Reclocking Video Router **  | NDI CORE Max             | 1   |            |             |
| 3                           | a | 4 Channels 4K-NDI Recorder   | CUBE R1                  | 1   |            |             |

| No                     |                           | Item Specification                                      | Model  | Qty | Unit Price | Total Price |
|------------------------|---------------------------|---|--|-----|------------|-------------|
|                        | b                         | NDI Router (16x32) with SFP+ 10G Base-T RJ45 Transeiver | CUBE X1  |     |            |             |
|                        | c                         | 1 TB Pro SATA III Memory Card                           | 1TB Storage Stick                                  | 2   |            |             |
| 4                      | a                         | 55" Monitor (MV & STUDIO)                               | UA-55CU7000  | 4   |            |             |
|                        | b                         | NDI to 4K HDMI Converter                                | N40  | 4   |            |             |
| 5                      | a                         | 24" NDI Monitor (PGM)                                   | BM-245-NDI   | 1   |            |             |
| 6                      | <b>I/O Interface Unit</b> |   |  |     |            |             |
|                        | a                         | 4K HDMI to NDI Encoder/Decoder                          | NC2 Studio I/O Module                              | 1   |            |             |
|                        | b                         | Virtual set Editor Advances Edition 3D **               | Virtual set Editor Advances Edition 3D             | 1   |            |             |
|                        | c                         | 24 Ports 10G Managed Switch                             | M4300-24X  | 2   |            |             |
|                        | d                         | 12G SDI to NDI Bi-Directional Converter                 | N30  | 2   |            |             |
|                        |                           |   |  |     |            |             |
| <b>SUB TOTAL</b>       |                           |   |  |     |            |             |
| <b>C. AUDIO SYSTEM</b> |                           |   |  |     |            |             |
| 1                      | a                         | Audio Mixer   | Type R20, 16-I/O, 12 Fader & 1 AES Full AOIP + PoE | 1   |            |             |
| 2                      | a                         | Wired Presenter Clip-On Microphone                      | ECM-77B  | 4   |            |             |
| 3                      | a                         | Wireless Clip-On Microphone                             | EW-D ME 2 SET                                      | 4   |            |             |
| 4                      | a                         | Wireless Handheld Microphone                            | EW-D 835-S SET                                     | 2   |            |             |
| 5                      | a                         | Dual Bodypack Wireless In-Ear Monitor                   | EW IEM G4-TWIN                                     | 1   |            |             |
| 6                      | a                         | Active Antenna Splitter                                 | EW-D ASA   | 2   |            |             |
| 7                      | a                         | Antenna System  | ADP UHF  | 2   |            |             |
| 8                      | a                         | Active Antenna Combiner                                 | AC41   | 1   |            |             |
| 9                      | a                         | Passive Directional Antenna                             | A 2003-UHF   | 1   |            |             |
| 10                     | a                         | Microphone Floor  | MK10   | 2   |            |             |

| No                              |   | Item Specification                   | Model            | Qty | Unit Price | Total Price |
|---------------------------------|---|--------------------------------------|------------------|-----|------------|-------------|
|                                 |   | Stand                                |                  |     |            |             |
| 11                              | a   | 4" Audio Speaker Monitoring (PCR)    | KH 80 DSP        | 2   |            |             |
| 12                              | a   | 5" Audio Speaker Monitoring (STUDIO) | KH 120II         | 2   |            |             |
| 13                              | a   | Professional Headphone               | HD300 Pro        | 8   |            |             |
| 14                              | a   | Beltpack IFB + Accessories           | PT-320 + Headset | 4   |            |             |
| <b>SUB TOTAL</b>                |   |                                      |                  |     |            |             |
| <b>D. COMMUNICATION SYSTEM</b>  |   |                                      |                  |     |            |             |
| 1                               | a   | Intercom Base Station                | ET N-80          | 1   |            |             |
| 2                               | a   | Dual Channel Hybrid Telephone        | DH22             | 1   |            |             |
| <b>SUB TOTAL</b>                |   |                                      |                  |     |            |             |
| <b>E. LIGHTING SYSTEM</b>       |   |                                      |                  |     |            |             |
| 1                               | a   | 300W Daylight LED Fresnel Light      | FL-C400D         | 8   |            |             |
| 2                               | a   | 200w Daylight Soft Panel Light       | PL-S150D         | 10  |            |             |
| 3                               | a   | Lighting Console                     | LA-R240          | 1   |            |             |
| <b>SUB TOTAL</b>                |   |                                      |                  |     |            |             |
| <b>F. INSTALLATION MATERIAL</b> |   |                                      |                  |     |            |             |
| 1                               | Wiring and connection material lump sum estimated |                                      |                  |     |            |             |
|                                 | a   | HFO Camera Cables - 25M              |                  | 2   |            |             |
|                                 | b   | HFO Engine Room Cables - 25M         |                  | 3   |            |             |
|                                 | c   | HFO Drum Reels                       |                  | 2   |            |             |
|                                 | d   | 12G RG6 SDI Cable                    | 4694R            | 2   |            |             |
|                                 | e   | 12G RG6 BNC                          | 4694RBUHD3       | 2   |            |             |
|                                 | f   | Cat6A                                |                  | 4   |            |             |
|                                 | g   | RJ45 Cat6A                           | 3pcs type        | 2   |            |             |
|                                 | h   | KVM Lenkeng PtP                      | LKV582KVM        | 20  |            |             |
|                                 | i   | Power Cables                         |                  | 1   |            |             |
|                                 | j   | Other IP / Analog Cables             |                  | 1   |            |             |
|                                 | k   | Equipment Rack 19"                   |                  | 4   |            |             |
|                                 | l   | Nut & Bolt                           |                  | 1   |            |             |
| <b>SUB TOTAL</b>                |   |                                      |                  |     |            |             |
| <b>G. SERVICES</b>              |   |                                      |                  |     |            |             |
| 1                               | a   | Installation &                       |                  | 1   |            |             |

| No               | Item Specification               | Model | Qty | Unit Price | Total Price |
|------------------|----------------------------------|-------|-----|------------|-------------|
|                  | Integration                      |       |     |            |             |
|                  | b System Drawing                 |       | 1   |            |             |
|                  | c Testing & Operational Training |       | 1   |            |             |
|                  | d Labor Charges                  |       | 1   |            |             |
| <b>SUB TOTAL</b> |                                  |       |     |            |             |

**A.2. PLAYOUT AUTOMATION & NON LINEAR EDITING**

| No                                  | Item Specification   | Model      | Qty | Unit Price | Total Price |
|-------------------------------------|--|------------|-----|------------|-------------|
| <b>A. PLAYOUT AUTOMOTION SYSTEM</b> |  |            |     |            |             |
| 1                                   | Video Playout  |            |     |            |             |
|                                     | a <b>Playout Computer (Main and Backup) **</b>                           |            |     |            |             |
|                                     | Intel Xeon Chipset<br>Motherboard  |            | 2   |            |             |
|                                     | Intel Xeon W7-2495X<br>Processor (2.5 GHz,<br>4800MHz, 24 Core,<br>225W) |            |     |            |             |
|                                     | 64 GB (4 x 16 GB)<br>RAM   |            |     |            |             |
|                                     | 2 x 512 GB SSD RAID<br>1   |            |     |            |             |
|                                     | 2 x 4 TB 7200 Rpm<br>SATA 3.5" Enterprise<br>HDD RAID 0                  |            |     |            |             |
|                                     | NVIDIA Quadro Series   |            |     |            |             |
|                                     | Intel X550-T2 10Gbe<br>Dual Port NIC                                     |            |     |            |             |
|                                     | 12G SDI I/O Card   |            |     |            |             |
|                                     | b Playout PC Monitor   | S2722QC    | 2   |            |             |
| 2                                   | Network Attached Storage   |            |     |            |             |
|                                     | a <b>8-Bay Rackmount NAS Server External Storage **</b>                  |            |     |            |             |
|                                     | 2U (8Bay) Storage<br>Server  | EVO 8 bays | 1   |            |             |
|                                     | Drives: 8 x 8 TB HDD +<br>1 Free Spare                                   |            |     |            |             |
|                                     | 64 TB RAW Capacity   |            |     |            |             |
|                                     | 2 x 10Gbase-T Ethernet<br>Port   |            |     |            |             |

| No | Item Specification   | Model   | Qty | Unit Price | Total Price |
|----|--|---------|-----|------------|-------------|
|    | 2 x 1 GbE (on-board) Ethernet Port   |         |     |            |             |
| 3  | Scheduling, QC, Main Backup Manager, Content Replicator                    |         |     |            |             |
| a  | <b>Scheduling, QC, Main Backup Manager, Content Replicator Computer **</b> |         |     |            |             |
|    | Intel Xeon Chipset Motherboard   |         | 1   |            |             |
|    | Intel Xeon W3-2423 Processor (4.0 GHz, 15 MB cache, 6 Core, 120W)          |         |     |            |             |
|    | 64 GB (4 x 16 GB) RAM  |         |     |            |             |
|    | 2 x 512 GB SSD RAID 1  |         |     |            |             |
|    | Intel X550-T2 10Gbe Dual Port NIC  |         |     |            |             |
|    | NVIDIA GPU   |         |     |            |             |
| b  | PC Monitor   | S2722QC | 1   |            |             |
| 4  | Ingest and Preview   |         |     |            |             |
| a  | <b>Ingest Computer **</b>  |         |     |            |             |
|    | Intel Xeon Chipset Motherboard   |         | 1   |            |             |
|    | Intel Xeon W7-2495X Processor (2.5 GHz, 4800MHz, 24 Core, 225W)            |         |     |            |             |
|    | 64 GB (4 x 16 GB) RAM  |         |     |            |             |
|    | 2 x 512 GB SSD RAID 1  |         |     |            |             |
|    | 2 x 4 TB 7200 Rpm SATA 3.5" Enterprise HDD RAID 0                          |         |     |            |             |
|    | NVIDIA Quadro Series   |         |     |            |             |
|    | Intel X550-T2 10Gbe Dual Port NIC  |         |     |            |             |
|    | 12G SDI I/O Card   |         |     |            |             |
| b  | Ingest PC Monitor  | S2722QC | 1   |            |             |
| 5  | Bms - Broadcast Management System  |         |     |            |             |
| a  | <b>Broadcast Management System Computer **</b>                             |         |     |            |             |
|    | Intel Xeon Chipset Motherboard   |         | 1   |            |             |



| No | Item Specification  | Model  | Qty                   | Unit Price | Total Price |
|----|---|--|-----------------------|------------|-------------|
|    | Intel Xeon W3-2423 Processor (4.0 GHz, 15 MB cache, 6 Core, 120W) |  |                       |            |             |
|    | 64 GB (4 x 16 GB) RAM   |  |                       |            |             |
|    | 2 x 512 GB SSD RAID 1   |  |                       |            |             |
|    | Intel X550-T2 10Gbe Dual Port NIC                                 |  |                       |            |             |
|    | NVIDIA GPU  |  |                       |            |             |
|    | b   | BMS Computer Monitor                         | S2722QC               | 1          |             |
| 6  | a   | NDI Video Monitor (QC)                       | BM-245-NDI            | 1          |             |
| 7  | a   | 12G SDI Video Router                         | KUMO 1616-12G         | 1          |             |
|    | b   | Router Redundant PSU                         | KUMO PWR              | 1          |             |
|    | c   | Remote Control Panel                         | KUMO-CP               | 2          |             |
|    | d   | MCR Video Switcher **                        | Tricaster TC1         | 1          |             |
|    | e   | Control Panel                                | Tricaster TC1 SP      | 1          |             |
| 8  | Networking  |  |                       |            |             |
|    | a   | 10G LAN Switch                               | M4300-24X             | 2          |             |
| 9  | Infrastructure  |  |                       |            |             |
|    | a   | 12G-SDI to HDMI Converter                    | DAC-8P 4K             | 2          |             |
|    | b   | NDI Multiviewer **                           | Multiviewer Pro       | 1          |             |
|    | c   | 12G SDI to NDI Encoder/Decoder               | NC2 Studio I/O Module | 1          |             |
| 10 | Single Channel Playout Automotion Software                        |  |                       |            |             |
|    | a   | BMS **                                       | OnAir TV              | 1          |             |
|    | b   | Content Replicator **                        | XCR                   | 1          |             |
|    | c   | Ingest **                                    | Ingest                | 1          |             |
|    | d   | Playout (main) Include : Audio Loudness **   | Atrio                 | 1          |             |
|    | e   | Playout (backup) Include : Audio Loudness ** | Atrio                 | 1          |             |
|    | f   | QC **  | QC                    | 2          |             |
|    | g   | Playout Control **                           | XPC                   | 1          |             |
|    | h   | Main Backup Manager **                       | MBM                   | 1          |             |
|    | i   | Installation, Setup & Training On Site (day) | Service               | 5          |             |

| No   |   | Item Specification  | Model          | Qty | Unit Price | Total Price |
|--|---|---|----------------|-----|------------|-------------|
|  | j | Annual Service Maintenance contract (Year) IMPORTANT  | ASM            | 1   |            |             |
| 15   | a | 55" Video Monitoring  | UA-55CU7000    | 3   |            |             |
| 16   | a | Audio Monitoring Speaker  | KH80 DSP       | 2   |            |             |
| <b>SUB TOTAL</b>                                   |   |   |                |     |            |             |
| <b>B. INSTALLATION MATERIAL</b>                    |   |   |                |     |            |             |
| 17   | a | Wiring and connection material lump sum estimated   |                | 1   |            |             |
| <b>SUB TOTAL</b>                                   |   |   |                |     |            |             |
| <b>C. NON LINEAR EDITING &amp; GRAPHICS SYSTEM</b> |   |   |                |     |            |             |
| 1  | a | Non Linear Editing Computer   |                |     |            |             |
|  |   | Windows 11 Pro **   | OMEN 40L       | 4   |            |             |
|  |   | Intel Core i7 - 13700K RGB Cooler (up to 5.4 GHz, 30 MB L3 cache, 16 cores, 24 threads)           | Gaming Desktop |     |            |             |
|  |   | Kingston FURY 16 GB DDR5 - 5200 MHz XMP RGB Heatsink RAM (2 x 8 GB)                               |                |     |            |             |
|  |   | 1 TB WD Black PCIe Gen4 TLC M.2 SSD   |                |     |            |             |
|  |   | 2 TB 7200 rpm SATA HDD  |                |     |            |             |
|  |   | NVIDIA GeForce RTX 4060 (8 GB GDDR6 dedicated)  |                |     |            |             |
|  |   | Front Bezel Black Glass with RGB 600 W 80 plus Gold certified ATX power supply                    |                |     |            |             |
|  |   | Realtek RTL8852BE Wi-Fi 6 (2x2) and Bluetooth 5.3 compatible combo (supporting gigabit data rate) |                |     |            |             |
|  |   | HP 310 Black Wired Keyboard and Mouse combo   |                |     |            |             |

| No                 |   | Item Specification  | Model  | Qty | Unit Price | Total Price |
|--------------------|---|---|--|-----|------------|-------------|
|                    | b | AoIP Sound Card **  | HAPI MKII<br>16Ch Mic /<br>Line, 16Ch<br>Line Out, 1<br>AES3, Full<br>AOIP Ravenna | 1   |            |             |
|                    | c | Pyramix Native Audio<br>recording Software **                         | State of the art<br>up to 384kHz<br>S/R<br>PYRAMIX<br>PRO NATIVE                   | 4   |            |             |
|                    | d | Video Editing Software<br>License, @ 3 Years<br>(License per Year) ** | PREMIERE<br>PRO  | 4   |            |             |
|                    | e | Vocal Microphone  | SM7B   | 8   |            |             |
|                    | f | Table Microphone Stand  | DS1  | 8   |            |             |
|                    | g | XLR M - XLR F<br>Microphone Cable,<br>@5m                             | L2T2S  | 8   |            |             |
|                    | h | Headphone   | HD300 Pro  | 8   |            |             |
| 2                  | a | SAS card 12Gb **  | 12Gb SAS<br>Expander Card<br>(727250-B21)  | 1   |            |             |
| 4                  | a | 45TB Data Cartridge<br>Tape   | LTO-9 Ultrium<br>45TB RW Data<br>Cartridge   | 8   |            |             |
| 5                  | a | LTO internal Tape Drive<br>**   | StoreEver<br>LTO-9 Ultrium<br>45000  | 1   |            |             |
| <b>SUB TOTAL</b>   |   |   |  |     |            |             |
| <b>D. SERVICES</b> |   |   |  |     |            |             |
|                    | a | Installation &<br>Integration   |  | 1   |            |             |
| 6                  | b | System Drawing  |  |     |            |             |
|                    | c | Testing and Operational<br>Training                                   |  |     |            |             |
| <b>SUB TOTAL</b>   |   |   |  |     |            |             |

### A.3. CONSTRUCTION TV NEWS SET DESIGN

| No                    | Item Specification | Brand | Model | Qty | Unit Price | Total Price |
|-----------------------|--------------------|-------|-------|-----|------------|-------------|
| <b>A. TV NEWS SET</b> |                    |       |       |     |            |             |

|                  |   |                         |            |   |  |  |
|------------------|---|-------------------------|------------|---|--|--|
| 1                | a | Anchor Corner News Desk | CUSTOMIZED | 2 |  |  |
|                  | b | Background Construction | CUSTOMIZED | 1 |  |  |
| <b>SUB TOTAL</b> |   |                         |            |   |  |  |

#### **A.4. FULL AoIP RADIO PRODUCTION**

| No  |  | Item Specification   | Model                                       | Qty | Unit Price | Total Price |
|---|--|--|---|-----|------------|-------------|
| <b>A. RADIO CONSOLE &amp; SOFTWARE SYSTEM</b> |  |  |   |     |            |             |
| 1   | a  | Audio Console **   | R20, 8-I/O, 6 Fader & 1 AES Full AIOP + PoE | 1   |            |             |
|   | b  | ON AIR Light   | Mr.LIGHT RGB                                | 3   |            |             |
| 2   | Radio Broadcast software Licenses - 1 Year T.Support & Updates |  |   |     |            |             |
|   | a  | Radio Automation - Include workstation **  | JAZZLER SOHO PRO                            | 1   |            |             |
|   | b  | PC-AD2 2 Stereo Analogue I/O & 2 Stereo AES-3 I/O Half Height Sound Card **                          | PC-AD2                                      | 1   |            |             |
| 3   | SQL Data Base Server   |  |   |     |            |             |
|   | a  | Myriad 5 Logging, include workstation and 4 ch soundcard **<br>Including 4 Ch soundcard with AES I/O | 5 Logging                                   | 1   |            |             |
| 4   | Studio Internet Computer **                                    |  |   |     |            |             |
|   | a  | Windows 11 Pro<br>i7-13620H MX550 512 GB<br>24" IPS W11 OHS - Black UHD, 16GB                        | IdeaCentre AIO 3                            | 1   |            |             |
| 5   | Playout Computer **  |  |   |     |            |             |
|   | a  | Windows 11 Pro<br>Intel Core i7-13700K RGB Cooler (up to 5.4 GHz, 30 MB L3 Cache, 16 Cores, 24       | OMEN 40L Gaming Desktop<br>GT21-1455SE      | 1   |            |             |

| No | Item Specification   | Model  | Qty                | Unit Price | Total Price |
|----|--|--|--------------------|------------|-------------|
|    | threads)   |  |                    |            |             |
|    | 16GB DDR5 - 5200 MHz XMP RGB Heatsink RAM (2x8GB)  |  |                    |            |             |
|    | 1TB NVme Storage   |  |                    |            |             |
|    | NVIDIA GeForce RTX 4060 (8GB GDDR6 Dedicated)  |  |                    |            |             |
|    | Front Bezel Black Glass with RGB 600 W 80 Plus Gold certified ATX power supply   |  |                    |            |             |
|    | Realtek RTL8852BE Wi-Fi 6 (2x2) and Bluetooth® 5.3 compatible combo (supporting gigabit data rate) + LAN 1 GB additional |  |                    |            |             |
|    | HP 310 Black Wired Keyboard and mouse combo (Included)   |  |                    |            |             |
|    | b  | Playout Computer Monitor   | S2722QC            | 1          |             |
|    | c  | HAPI MKII 8Ch Mic / Line, 8Ch Line Out, 1 AES3, Full AOIP Ravenna ** | -                  | 1          |             |
|    | d  | Ovation software, Scheduling and Routing Software **                 | Ovation Pro Native | 1          |             |
|    | e  | Broadcast Plugin   | Loudness Control   | 1          |             |
| 6  | a  | Digital Audio Processors   | Trio               | 1          |             |
| 7  | a  | Confidence Monitor   | RM-CAD8            | 1          |             |
| 8  | a  | Production Computer **   | OMEN 40L           | 1          |             |
|    | Windows 11 Pro   | Gaming Desktop   |                    |            |             |
|    | Intel Core i7-13700K RGB Cooler (up to 5.4 GHz, 30 MB L3 Cache, 16 Cores, 24 threads)                                    | GT21-1455SE  |                    |            |             |
|    | 16GB DDR5 - 5200 MHz XMP RGB Heatsink RAM (2x8GB)  |  |                    |            |             |
|    | 1TB NVme Storage   |  |                    |            |             |
|    | NVIDIA GeForce RTX 4060 (8GB GDDR6 Dedicated)  |  |                    |            |             |
|    | Front Bezel Black Glass with RGB 600 W 80 Plus Gold certified ATX power supply   |  |                    |            |             |

| No                               | Item Specification   | Model   | Qty             | Unit Price | Total Price |  |
|----------------------------------|--|---|-----------------|------------|-------------|--|
|                                  | Realtek RTL8852BE Wi-Fi 6 (2x2) and Bluetooth® 5.3 compatible combo (supporting gigabit data rate) |   |                 |            |             |  |
|                                  | HP 310 Black Wired Keyboard and mouse combo (Included)   |   |                 |            |             |  |
|                                  | b  | Production Computer Monitor                       | S2722QC         | 1          |             |  |
|                                  | c  | SoundCard Controller **                           | Anubis          | 1          |             |  |
|                                  | d  | Pyramix PRO NATIVE **                             | Pro - Native    | 1          |             |  |
| e                                | Manage Gigabit Switch  | Manage 12 Port                                    | 2               |            |             |  |
| 9                                | a  | Studio Microphone                                 | MD421           | 2          |             |  |
|                                  | b  | Studio Microphone                                 | M70 PRO X       | 5          |             |  |
|                                  | c  | "ON AIR" Microphone ARM M aluminium               | PSA1            | 2          |             |  |
|                                  | d  | Table trough arm                                  | PSA1            | 2          |             |  |
|                                  | e  | Pop Shield  |                 | 2          |             |  |
|                                  | f  | Professional Headphone                            | HD300 PRO       | 8          |             |  |
|                                  | g  | 19" Headphone Amplifier 3 Channel                 | HA3D            | 4          |             |  |
|                                  | h  | 4" Audio Speaker Monitoring (STUDIO)              | KH 80DSP        | 4          |             |  |
|                                  | i  | 6-Input / 6-Track Portable Handy Recorder         | PORTACAPTURE X6 | 2          |             |  |
| <b>SUB TOTAL</b>                 |  |   |                 |            |             |  |
| <b>B. INSTALLATION MATERIAL</b>  |  |   |                 |            |             |  |
| 1                                | a  | Wiring and connection material lump sum estimated |                 |            |             |  |
|                                  |  | Power Cable                                       |                 | 1          |             |  |
|                                  |  | AoIP Cable and Connectors                         |                 | 1          |             |  |
|                                  |  | XLR Connectors                                    |                 | 1          |             |  |
|                                  |  | Equipment Rack 19" 4RU + Nuts and Bolts           |                 | 1          |             |  |
| <b>SUB TOTAL</b>                 |  |   |                 |            |             |  |
| <b>C. RADIO STUDIO FURNITURE</b> |  |   |                 |            |             |  |
| 1                                | a  | On Air Broadcast Radio Studio Desk Furniture      |                 | 2          |             |  |
| <b>SUB TOTAL</b>                 |  |   |                 |            |             |  |
| <b>D. SERVICES</b>               |  |   |                 |            |             |  |
| 1                                | a  | Installation & Integration                        | LOKAL           | 1          |             |  |
|                                  | b  | System Drawing                                    |                 |            |             |  |

| No               | Item Specification             | Model | Qty | Unit Price | Total Price |
|------------------|--------------------------------|-------|-----|------------|-------------|
| c                | Testing & Operational Training |       |     |            |             |
| <b>SUB TOTAL</b> |                                |       |     |            |             |

#### A.5. Studio Acoustic / Sound Proofing Lump

| NO                     | Item Specification           | Notes          | Qty | Unit Price | Total Price |
|------------------------|------------------------------|----------------|-----|------------|-------------|
| <b>A. AUDITORIUM</b>   |                              |                |     |            |             |
| 1                      | C-Channel Galvanized Truss   | 7.5x2.8x600    | 76  | unit       |             |
| 2                      | U-Channel Galvanized Truss   | 7.5x2.8x600    | 10  | unit       |             |
| 3                      | Galvanized Hollow            | 4x4x400        | 20  | unit       |             |
| 4                      | Plywood 9mm                  | 122x244        | 41  | unit       |             |
| 5                      | Plywood 12mm                 | 122x244        | 41  | unit       |             |
| 6                      | Fabric                       | Accoustic type | 238 | m          |             |
| 7                      | Scatterbox A                 | Promidi        | 68  | unit       |             |
| 8                      | Scatterbox B                 | Promidi        | 68  | unit       |             |
| 9                      | Scatterbox C                 | Promidi        | 68  | unit       |             |
| 10                     | Absorber                     | Promidi        | 108 | unit       |             |
| 11                     | Slit Diffuser                | Promidi        | 60  | unit       |             |
| 12                     | Construction Installation    |                | 238 | m2         |             |
| 13                     | Panel Installation           |                | 372 | unit       |             |
| 14                     | Acoustic Door + Installation | TSI            | 2   | pair       |             |
| 15                     | Support Material             |                | 1   | lot        |             |
| <b>SUB TOTAL</b>       |                              |                |     |            |             |
| <b>B. RADIO ON AIR</b> |                              |                |     |            |             |
| 1                      | PRD Diffuser                 | Promidi        | 6   | unit       |             |
| 2                      | Scatterbox A                 | Promidi        | 12  | unit       |             |
| 3                      | Scatterbox B                 | Promidi        | 4   | unit       |             |
| 4                      | Scatterbox C                 | Promidi        | 8   | unit       |             |
| 5                      | Absorber                     | Promidi        | 46  | unit       |             |
| 6                      | Slit Diffuser                | Promidi        | 6   | unit       |             |
| 7                      | Panel Installation           | Promidi        | 82  | unit       |             |
| 8                      | Acoustic Door +              | TSI            | 1   | unit       |             |

| NO  | Item Specification           | Notes   | Qty |      | Unit Price | Total Price |
|---|------------------------------|---------|-----|------|------------|-------------|
|   | Installation                 |         |     |      |            |             |
| 9   | Support Material             |         | 1   | lot  |            |             |
| <b>SUB TOTAL</b>                              |                              |         |     |      |            |             |
| <b>C. TV PCR (Production Control Room)</b>    |                              |         |     |      |            |             |
| 1   | Scatterbox A                 | Promidi | 6   | unit |            |             |
| 2   | Scatterbox B                 | Promidi | 20  | unit |            |             |
| 3   | Scatterbox C                 | Promidi | 16  | unit |            |             |
| 4   | Absorber                     | Promidi | 40  | unit |            |             |
| 5   | Panel Installation           | Promidi | 82  | unit |            |             |
| 6   | Acoustic Door + Installation | TSI     | 1   | unit |            |             |
| 7   | Support Material             |         | 1   | lot  |            |             |
| <b>SUB TOTAL</b>                              |                              |         |     |      |            |             |
| <b>D. AIRLOCK CORRIDOR (to editing rooms)</b> |                              |         |     |      |            |             |
| 1   | Scatterbox A                 | Promidi | 5   | unit |            |             |
| 2   | Scatterbox B                 | Promidi | 4   | unit |            |             |
| 3   | Scatterbox C                 | Promidi | 4   | unit |            |             |
| 4   | Absorber                     | Promidi | 20  | unit |            |             |
| 5   | Panel Installation           | Promidi | 33  | unit |            |             |
| 6   | Acoustic Door + Installation | TSI     | 1   | unit |            |             |
| 7   | Support Material             |         | 1   | lot  |            |             |
| <b>SUB TOTAL</b>                              |                              |         |     |      |            |             |
| <b>E. EDITING ROOM 3 / AUDIO CONTROL ROOM</b> |                              |         |     |      |            |             |
| 1   | PRD Diffuser                 | Promidi | 6   | unit |            |             |
| 2   | Scatterbox A                 | Promidi | 8   | unit |            |             |
| 3   | Scatterbox B                 | Promidi | 3   | unit |            |             |
| 4   | Scatterbox C                 | Promidi | 3   | unit |            |             |
| 5   | Absorber                     | Promidi | 18  | unit |            |             |
| 6   | Panel Installation           | Promidi | 38  | unit |            |             |
| 7   | Acoustic Door + Installation | TSI     | 1   | unit |            |             |
| 8   | Support Material             |         | 1   | lot  |            |             |
| <b>SUB TOTAL</b>                              |                              |         |     |      |            |             |
| <b>F. EDITING ROOM 4 / AUDIO DUBBING ROOM</b> |                              |         |     |      |            |             |
| 1   | PRD Diffuser                 | Promidi | 6   | unit |            |             |
| 2   | Scatterbox A                 | Promidi | 8   | unit |            |             |
| 3   | Scatterbox B                 | Promidi | 3   | unit |            |             |



| NO                   | Item Specification           | Notes   | Qty |      | Unit Price | Total Price |
|----------------------|------------------------------|---------|-----|------|------------|-------------|
| 4                    | Scatterbox C                 | Promidi | 3   | unit |            |             |
| 5                    | Absorber                     | Promidi | 18  | unit |            |             |
| 6                    | Panel Installation           | Promidi | 38  | unit |            |             |
| 7                    | Acoustic Door + Installation | TSI     | 1   | unit |            |             |
| 8                    | Support Material             |         | 1   | lot  |            |             |
| <b>SUB TOTAL</b>     |                              |         |     |      |            |             |
| <b>G. LABOR COST</b> |                              |         |     |      |            |             |
| 1                    | Construction & Integration   |         | 120 | days |            |             |
| <b>SUB TOTAL</b>     |                              |         |     |      |            |             |

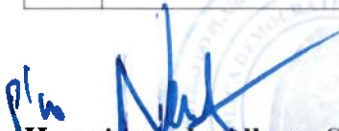


MINISTÉRIO DO PLANEAMENTO  
E INVESTIMENTO ESTRATÉGICO  
IX GOVERNO CONSTITUCIONAL



Comissão Nacional de Aprovisionamento

| No. | Part of the Bidding Document       | As per this Original Bidding Document                 | As per this Addendum No. 2  |
|-----|------------------------------------|---|---|
| 4.  | Part I, Section 4:<br>Bidding Form | For Technical Specification – Refer to Price Schedule | For Technical Specification – Refer to Price Schedule<br><br><b>AS ATTACHED</b> |

  
**Hermingardo Albano Soares**  
Executive Director of NPC

Attachment - PRICE SCHEDULE