

## ANNEX V TO THE INVITATION TO TENDER

---

### **Disclaimer**

**Due to the technical nature of this document, it is only available in English**

### **STANDARD TABLES FINANCIAL OFFER**

**Provision of professional audio, video and photo equipment and accessories, and services related to this equipment**

**Call for tenders PO/2015-05/A4**

ONLY THESE FORMS CAN BE USED FOR THE PRICE OFFER.  
THE FORMS MUST BE DULY COMPLETED, DATED AND SIGNED.

- EACH ITEM MUST BE QUOTED.
- EACH EMPTY BOX MUST BE COMPLETED.
- ONLY ONE AMOUNT MUST BE INDICATED PER ITEM/ROW (FREE OF ALL TAXES, DUTIES AND OTHER CHARGES, INCLUDING VAT).
- NO COMMENTS OR REMARKS MAY BE ADDED TO THE PRICE PROPOSED.

**A PRICE OFFER NOT COMPLYING WITH THESE CONDITIONS WILL BE CONSIDERED AS NOT CONFORMING AND WILL BE REJECTED.**

**NAME OF TENDERER:**

**DATE :**

**SIGNATURE :**

# THEORETICAL PURCHASE

For the purpose of awarding the contract, the contracting authority will take into account the theoretical purchase consisting of 23 items described hereinafter. Please note that the quantities specified in the purchase are only intended to compare financial offers on the same basis and do not commit the Commission in any way as to the actual quantities to be purchased under the contract.

**Tenderers are requested to complete the columns:**

- "Model proposed and comments",
- "Unit Price (all-in) in euro",

**of the following tables.**

**All items must be quoted.**

Two offers from two different brands must be quoted for each item, presented in the rows indicated (Brand 1, Brand 2). Additional options and accessories must not be offered beyond those required to meet the minimal specifications (see column "Comments and/or accessories"). Full details of the items proposed must be included; in particular, it must be clear which version of the equipment and accessories is offered. In addition, a reference may be given to a site on the Internet where further technical information may be found.

For the purpose of the financial evaluation of the offers, the Commission (the lead contracting authority) will calculate the total amount of the "Theoretical Purchase" in the following way:

$$\frac{(\text{Price Brand 1} + \text{Price Brand 2})}{2} \times \text{Quantity} = \text{Average price per item}$$
$$\Sigma (\text{Average price per item}) = \text{Final total amount of the purchase [price of tender]}$$

**Professional Television Cameras**

<b>CONTRACT REQUIREMENTS</b>				<b>COLUMNS TO BE COMPLETED BY THE TENDERER</b>	
<b>Item Nr</b>	<b>Type of equipment</b>	<b>Comments and/or accessories Minimum requirements</b>	<b>Quantity</b>	<b>Model proposed and comments</b>	<b>Unit Price (all-in) in euro</b>
<b>1.</b>	Broadcast HD ENG camera. Compact design. Recording to non-tape based media	<ul style="list-style-type: none"> <li>- 2/3 inch CCD, 16 bit A/D processing.</li> <li>- Able to capture in 625i, 720p, 1080i, 1080p. Genlockable, 2 XLR inputs, BNC out.</li> <li>- Battery, charger, protective color viewfinder.</li> </ul>	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
<b>2.</b>	Reader for the recording media used by item 1	<ul style="list-style-type: none"> <li>- To give an HD SDI (1080p) out with embedded audio (min 4 channels) and with data connection.</li> </ul>	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

**Audio and Sound Processing**

CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
3.	Digital Audio Production Unit	<ul style="list-style-type: none"> <li>- Industry standard unit based on PC/MAC technology.</li> <li>- A control console and dual display devices must be provided.</li> </ul>	2	Brand 1:	
				Brand 2:	
4.	DVD duplication. To create 8 simultaneous copies from one master.	<ul style="list-style-type: none"> <li>- Providing authoring and printing solution.</li> <li>- Able to copy on CD-DVD-BD.</li> </ul>	4	Brand 1:	
				Brand 2:	
5.	Microphone	<ul style="list-style-type: none"> <li>- For use in a news radio studio, including a table stand and tally light.</li> <li>- Large diaphragm microphone with a cardioid polar pattern.</li> <li>- Insensitive to GSM radiation.</li> </ul>	8	Brand 1:	
				Brand 2:	
6.	Audio metering	<ul style="list-style-type: none"> <li>- To measure the compliance of our audio levels with EBU R128.</li> <li>- Rack mounted.</li> </ul>	4	Brand 1:	
				Brand 2:	

*Audio and Sound Processing*

CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
		– Supporting 16 audio channels simultaneously.			
7.	Audio/video processing cards	– To embed 16 balanced analogue audio signals into an HD SDI (1080p) video signal.  – In a single rack frame with redundant power supply.  – Must include audio delay control and/or re-clocking.	10	Brand 1:	
				Brand 2:	
		– To de-embed 16 balanced analogue audio signals from an HD SDI (1080p) video signal.  – In a single rack frame with redundant power supply.  – Must include audio delay control and/or re-clocking.	10	Brand 1:	
				Brand 2:	

*Interface, processing, measurement, monitoring, coding and decoding equipment*

CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
8.	Multi split processor	<ul style="list-style-type: none"> <li>- For the simultaneous display of 16 HD/SD SDI (1080p) and PAL composite video channels on a single screen. 10-bit processing and pixel mapping.</li> <li>- Include dynamic UMD control. The display device should <b>not</b> be included.</li> <li>- To be used in a control room.</li> <li>- Outputs: HDMI, BNC with HD SDI.</li> <li>- Resolution 720p, 1080i, 1080p.</li> </ul>	4	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
9.	Video-Audio Signal Routing	<ul style="list-style-type: none"> <li>- Self-contained, compact 16x16 for SDI (SD/HD) 1080p signals with a separate x/y control panel.</li> <li>- Remote control by IP (Ethernet) connection.</li> </ul>	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

***Interface, processing, measurement, monitoring, coding and decoding equipment***

<b>CONTRACT REQUIREMENTS</b>				<b>COLUMNS TO BE COMPLETED BY THE TENDERER</b>	
<b>Item Nr</b>	<b>Type of equipment</b>	<b>Comments and/or accessories Minimum requirements</b>	<b>Quantity</b>	<b>Model proposed and comments</b>	<b>Unit Price (all-in) in euro</b>
<b>10.</b>	MPEG processors SD/HD compatible	<ul style="list-style-type: none"> <li>- Broadcast MPEG-4 contribution encoder with HD SDI (1080p) input able to handle min 16 audios (embedded, analog, AES). The output should be compatible with standard IP networks.</li> <li>- Encoding format: MPEG-4 AVC, 4:2:0/4:2:2 10bit.</li> </ul>	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
		<ul style="list-style-type: none"> <li>- Broadcast MPEG-4 decoder.</li> <li>- Compatible with the above encoder.</li> </ul>	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
<b>11.</b>	Display device	<ul style="list-style-type: none"> <li>- 55" Full HD LCD display to be used with multiviewer point 8 in a control room (input DVI/HDMI/BNC).</li> <li>- Refresh rate min 120Hz, response time max 2ms.</li> <li>- To be used in a studio control room.</li> </ul>	4	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

<i>TV lighting</i>					
CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
12.	TV studio lighting	<ul style="list-style-type: none"> <li>- 330W at 3200K cold light with "barn doors".</li> <li>- Local dimmer and DMX dimming input.</li> </ul>	10	<i>Brand 1:</i>	
				<i>Brand 2:</i>	



*Non-linear editing equipment*

CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
13.	Digital file format converter SD/HD	<ul style="list-style-type: none"> <li>- Rack mounted unit able to convert a wide range of files into a range of industry standard streaming file formats.</li> <li>- The unit must also have an embedded HD SDI (1080p) input.</li> <li>- The unit must also have an SD/HD SDI output with embedded audios (min 4 channels).</li> <li>- The unit must be capable of unattended batch operations.</li> </ul>	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

***Recording and playout equipment***

<b>CONTRACT REQUIREMENTS</b>				<b>COLUMNS TO BE COMPLETED BY THE TENDERER</b>	
<b>Item Nr</b>	<b>Type of equipment</b>	<b>Comments and/or accessories Minimum requirements</b>	<b>Quantity</b>	<b>Model proposed and comments</b>	<b>Unit Price (all-in) in euro</b>
<b>14.</b>	Video Server	<ul style="list-style-type: none"> <li>– 2 HD/SD-SDI record/play channels.</li> <li>– Record and play back (DVC PRO 25/50, DVC PRO HD, MPEG-2 or equivalent).</li> <li>– 25 hours of HD storage (XDCAM HD 50 quality or equivalent).</li> <li>– HD/SD auto-detection and transparent.</li> </ul>	1	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

<i>Fibre and IP transmission</i>					
CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
15.	Portable converter Optical/HD-SDI	– To be used with single mode fibre LC connector.	5	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
16.	Managed network switch, layer 3	– Min 24 ports with min 2 of 10Gb uplink ports SFP. – Stackable, redundant power supply.	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
17.	Single mode fibre patch cables 5m	– LC-LC connectors, OS1. – For transport of network and audio/video signals.	10	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
		– ST-ST connectors, OS1. – For transport of network and audio/video signals.	10	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
18.	Optical/video Patch Panels	– HD-SDI 48 connections in 1 RU. – Suitable for 1080p video signals.	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
		– Fibre 48 connections in 1 RU.	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

<i>Test equipment</i>					
CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
<b>19.</b>	Portable SD/HD SDI test equipment (generator and monitor)	<ul style="list-style-type: none"> <li>– The generator must produce a range of HD/SD (625i/1080i/1080p) video test signals and embedded audio test signals (min 4 channels).</li> <li>– The monitor must display the video, waveforms and embedded audio channels (min 4 channels).</li> </ul>	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
<b>20.</b>	Digital and Composite Waveform monitor	<ul style="list-style-type: none"> <li>– SD/HD SDI (625i/720p/1080i/1080p) and composite inputs analogue, digital and embedded audio (min 4 channels).</li> <li>– For measurement of waveform, vector, picture, audio, gamut, eye, timing.</li> <li>– Rackmountable.</li> </ul>	5	<i>Brand 1:</i>	
				<i>Brand 2:</i>	

<i>Photographic equipment</i>					
CONTRACT REQUIREMENTS				COLUMNS TO BE COMPLETED BY THE TENDERER	
Item Nr	Type of equipment	Comments and/or accessories Minimum requirements	Quantity	Model proposed and comments	Unit Price (all-in) in euro
21.	Professional Digital camera body	<ul style="list-style-type: none"> <li>– Format 24x36 with minimum 20 mega pixels.</li> <li>– Iso 200-12800. Top shutter speed of 1/8,000 second and flash sync speeds up to 1/250 second.</li> <li>– Minimum 3-inch LCD monitor.</li> </ul>	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
22.	Lenses for the above body	– 24-70 mm F2.8.	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
		– 70-200 stabilised F2.8.	2	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
23.	Memory cards for the above body	– 16 GB (UDMA 7).	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	
		– 32 GB (UDMA 7).	3	<i>Brand 1:</i>	
				<i>Brand 2:</i>	