

Request for Proposals For the provision of a Television News Studio For the Public Broadcasting Service in BiH

The Office of the High Representative (OHR) invites proposals for the provision of a modern television studio and editing suites as an important and **time critical** first phase of a larger facility for the Public Broadcasting Service (PBS) based in Sarajevo, Bosnia & Hercegovina.

The studio, which will be installed in an existing studio site of approximately 200 square meters, is initially intended to broadcast national news bulletins, but will have the additional capacity to produce short programmes of other genres between bulletins.

New studio must be installed and ready for acceptance by 31 July 2002.

Tenderers should also take note that this studio, whilst stand-alone in function, is the first phase of a larger television facility to be financed and installed by the EC, and compatibility of equipment and systems is therefore a consideration. The EC facility is the subject of a separate Invitation, the Forecast for which may be found in the Official Journal and on the EuropeAid website at: http://europa.eu.int/comm/europeaid/index_en.htm, reference EuropeAid/113092/D/S/BA.

Technical Specifications:

A full list and description of the equipment required is shown in the attached Annex.

Instructions to Tenderers:

Complete proposals will cover the supply of a fully operational studio, including the supply of equipment, installation, full repair and replacement warranties, plus a minimum of one week of on-site training for local technicians.

Proposals should itemise all equipment to be provided, in sufficient detail to enable the evaluation panel to establish that the proposal meets the requirements, including an outline block diagram, indicating the way in which the tenderer intends to realise the sound and vision systems.

The Proposals should also indicate any areas where the offered equipment does not completely correspond with the specification.

As a corollary to this, tenderers should not be inhibited from offering alternative solutions where this would result in meeting the purchaser's objective at the same time as lowering the bid price.

The total price should include the provision of a set of operation and maintenance manuals for the broadcast equipment supplied together with wiring schedules for any pre-wiring carried out.

Proposals must include:

Fully detailed description of all equipment proposed/included,

An outline block diagram of the sound and vision systems.

Functional diagrams for the vision, sound and editing sections showing how the offered equipment is to be interconnected,

Individual prices in EURO for all items including delivery and delivery insurance to Sarajevo,

Separate costings for installation, warranties and training,

Full replacement and repair warranties for both individual items and completed facility,

Terms of Payment required (OHR payment policy is bank transfer within 30 days of receipt and installation of goods),

A detailed timeline for delivery, installation and commissioning.

OHR may wish, at its option, to discuss or negotiate aspects of proposals, to contract for the complete facility as offered, or to conclude the matter without award.

Any award made as a result of this Request will be on the basis of price, timeframe, equipment specification and compatibility, and the tenderers experience of previous projects.

Schedule for Submission and Evaluation of Proposals:

In order to meet the intended timetable, proposals – marked PBS TV STUDIO – must be delivered to Head of Procurement at the above address by no later than Friday 29th March, 2002.

Any questions or requirements for clarification should be in writing to the Head of Procurement on FAX no. 00387 33 283 501 or e-mail tender@ohr.int.

Tenderers wishing to visit the site are invited to do so at their own expense on **Tuesday 12th February, 2002**. Tenderers intending to visit Bosnia should state their intention to do so in writing to Mrs Geraldine Horner, Media Development, OHR, Emerika Bluma 1, 71000 Sarajevo, fax 00 387 33 282 919, email geraldine.horner@ohr.int, no later then, Friday 8th February, 2002.

It is intended that the evaluation panel will be convened in the week commencing 1st April, 2002 and that orders for

equipment will be placed during the following two weeks.

In order for the facility to be operational by 31st July 2002, the successful tenderer will be required to undertake the necessary preparatory installation in the period before the equipment arrives in Sarajevo. It is anticipated that the installation should start on 1st July 2002.

We request that all potential tenderers advise us of their intention to submit a proposal by the due date. This will ensure that all interested parties receive our response to any clarification sought by others.

ANNEX 1 – PBS News Studio – TECHNICAL SPECIFICATION

Summary of Requirement

Tenderers should assume that the area to be equipped lacks all infrastructure and should include suitable provision of control desks, equipment bays, cabling and other fit-out.

The studio complex is supported by three adjoining tape edit suites that are also sources to the vision and sound mixers for play in purposes.

Vision Equipment

It is a requirement that the vision chain should be 270 Mb serial digital to ITU R-BT 601/656 standard from each source via the mixer to studio output. Where sources do not provide an SDI output it is acceptable to incorporate a component to SDI converter. These should be included in the total price offered. Where analogue signals are referred to, these are either component (YUV) EBU specification or 625 line 50Hz PAL encoded composite 1 volt pp 75 ohm. The tenderer should allow for and provide sufficient equipment bay space, vision jackfields and patchcords for the proposed installation.

Although there is no intention in the short term to transmit in other 4:3 aspect ratio all supplied broadcast monitors should be capable of working in 16:9 aspect ratio.

Line	Qty	Item
1	3	Broadcast quality cameras (3 x 2/3" CCD) with 15 or 16:1 zoom lenses, 5" studio viewfinders, electronic pan-bar remote controls for zoom & focus. The cameras should offer a minimum horizontal resolution of 850 TV lines and a minimum vertical resolution of 480 TV lines utilising a minimum effective pixel array of 750 x 580. With the lens offered, the camera should be capable of producing a fully exposed picture at f11 with an illumination of 2000 lux (90% reflectance) and signal to noise ratio of better than 60dB. The lens should have a zoom ratio of 15 or 16x, a minimum focal length without extender of 8mm on widest angle, a minimum object distance of 600mm and an aperture of at least f1.8 (@ w/a).
2	3	Camera control units for the above cameras, associated camera cables, operational controls for lift (black level), iris, gain, colour balance, gamma and other normal camera functions to be operated by a vision engineer.
3	3	Small studio gas pedestals with fluid heads, dual pan-bars and wedge plates for the above cameras. The pedestal/head combination should be suitable for the camera offered together with a flat screen prompting device.
4	1	PC based prompting system with software and 3 x 12" flat screen camera hoods – one for each camera.

5	1	Digital production vision mixer with a minimum of 16 inputs as to include colour black, 2 colour backgrounds and colour bars. The mixer should have a selection of wipes, variable axis chroma, linear and luminance key facilities, a separate mix/effects bank, a down stream keyer, and two assignable auxiliary buses as well as the ability to assign individual outputs. The mixer should also have at least 5 internal matte generators and the ability to control an external DVE from fader or button operation on the control surface.
6	1	Digital video effects unit to be operated separately to the vision mixer or as above. This unit should readily interface with the vision mixer and must offer a range of effects commensurate with the purposes described in the introduction.
7	12	14" Grade 2 colour monitors with component and composite PAL inputs
8	1	14" Grade 1 colour monitor with component, composite PAL and SDI inputs to be used in vision engineer's position
9	2	20" Grade 2 colour monitors with component and composite PAL inputs
10	1	20" Grade 1 colour monitor with component, composite PAL and SDI inputs
11	1	Production monitor stack providing housing for two 20" (Programme and Preview) and up to twelve 14" monitors. The monitor stack should also incorporate a PC based under monitor display system that can be assigned from the production desk
12	1	Studio master pulse generator to provide line drive, field drive, mixed syncs, mixed blanking, colour black as well as SDI timing, digital and analogue test signals

13	1	Stills store/caption generator. This unit must be capable of storing at least 1,200 full frame, full resolution stills, and should be capable of generating animated captions on a strap line as well as text in a variety of suitable fonts and sizes such that they can be pushed, slid, cut or rolled directly over video or as a key source to the mixer.
14	1	Logo inserter to insert channel logo as watermark in output vision.
15	1	High quality, rack mounted waveform monitor and vectorscope (PAL)
16	1	High quality rack mounted SDI signal monitor
17	1	Broadcast quality video disk recorder (with audio) with the capacity to store at least 30 minutes vision.
18	3	VHS machines
19	1	Monitoring matrix with a minimum of 10 sources and 4 destinations. Each destination to have a separate control panel.
20	1	Synchroniser with SDI output to enable mixing of external non-sync sources.
21	2	SDI to composite/component converters for monitoring purposes
22	1	SDI to component converter for main studio output to line
23	4	SDI to analogue converter for monitoring matrix
24	8	SDI distribution amplifiers providing 1 input, 1 re-clocked output and 6 outputs
25	8	Analogue vision distribution amplifiers providing 1 input, loop through and 6 outputs
26	1	Production desk
27	1	Master timecode generator

28	1	Large display timecode reader to be incorporated into monitor stack
29	1	Countdown clock for monitor stack
30	2	Analogue timeclocks corrected by reception of a standard radio time signal.

Sound Equipment

The tenderer should allow for and provide sufficient bay space audio jackstrips and patchcords for the proposed installation

Line	Qty	Item
1	1	Broadcast quality analogue audio mixing desk with a minimum of 16 stereo inputs with pre-fade listen on all channels, with 4 groups and 2 main outputs. The desk offered should provide normal clean feed, foldback and talkback facilities suitable for a live news operation. Inputs should provide mic/line switching and should be balanced. Outputs should be transformer balanced. The desk should provide switchable 48 volt powering for microphones and should be capable of generating, internally, line up tone. Equalisation on all channels is required and the desk should have switchable limiters. Additionally, at least 8 channels should have fader start operation. Desks with Penny & Giles faders are preferred.
2	1	BBC Peak Programme Meter bridge for above
3	1	Production talkback matrix capable of supporting least 18 destinations, including any configuration software necessary. This matrix should provide open talkback to cameras, IFB to presenters and 2 way open or switched talkback to other destinations.
4	4	Rack mounted subscriber panels including loudspeaker for above
5	5	Desk subscriber panels as above

6	2	30 watts per channel stereo audio amplifier
7	2	Pairs monitor quality loudspeakers
8	2	Professional compact disc player with remote start from fader
9	1	Professional mini-disc player with remote start from fader
10	1	Professional cassette player with remote start from fader
11	2	Rack mounted PPMs
12	6	Personal microphones for presenters
13	4	Desk microphones
14	6	Camera headsets to interface with cameras offered
15	1	Telephone balance unit
16	1	ISDN codec
17	12	Audio distribution amplifiers providing 1 balanced input to 5 balanced outputs

Lighting Equipment

The studio has a fixed lighting grid made from scaffold tubes. Given the nature of the programme output, the tenderer should offer a lighting solution that he/she deems appropriate but should bear in mind that to maintain maximum flexibility there would not necessarily be time to reset lights between productions.

The following is included for guidance.

Line	Qty	Item
1	1	Lighting desk and dimmer rack with up to 72 dimmer 2.5kW channels
2	1	Control system for above
3	3	2.5kW soft source luminaires including diffusers, barn doors, hanging bracket and safety wire.

4	10	1.25kW luminaires as above
5	20	1kW hard source luminaires including barn doors, hanging bracket and safety wires
6	3	2kw hard source luminaires as above
7	5	650w luminaires with Fresnel lens, barn doors etc.
8	10	Cyclorama lights

Edit Suite (Three identical)

At this stage the purchaser requires basic two machine edit suites but the tenderer should leave provision for these to be enhanced to three machines with an effects mixer. The following is for one suite but the total offered price should include three.

The tenderer should allow for and provide suitable patch panels and cords, racking and a desk.

Line	Qty	Item
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1	1	Broadcast video tape player – Betacam SX format with analogue playback facility. i.e. must be able to play Betacam SP tapes. The VTR should be capable of playing all available sizes of Betacam SP and SX cassette. Outputs Video Composite x 3 including one with character super Component 1 set SDI x 3 Audio Analogue x 4 Channels 1 – 4 balanced XLR Digital x 2 Channels 1/2 & 3/4 AES/EBU Monitor L + R XLR Headphone 1/4 stereo jack Timecode 1 x XLR Remote Sony 9 pin standard Audio and video levels to be adjusted by front panel controls. Display to be switchable between timecode control track and user bits.
	1	Broadcast video tape editing recorder – Betacam SX format Specification as above except ability to play Betacam SP tapes is not required. Outputs as above, inputs to be commensurate with outputs.
3	1	Three machine edit controller to interface above
4	2	20" Grade 2 colour monitors
5	1	Broadcast quality audio mixer with 8 channels
6	1	30 watt per channel stereo audio amplifier
7	2	Monitor quality loudspeakers
8	1	Voice-over microphone