

**ERDF.PA5.0106/4: TENDER FOR THE SUPPLY, INSTALLATION & COMMISSIONING OF
AUDIO VISUAL EQUIPMENT FOR THE CULTURAL AND RELIGIOUS TOURISM EXPERIENCE
WITHIN ST. DOMINIC'S PRIORY IN RABAT**

CLARIFICATIONS

Clarification No. 1

Minutes of the Clarification Meeting held on 16 July 2019:

1.1 **Item A - Video Laser 1-chip Projector with supplied interchangeable lens:** A discrepancy between the requirements listed as to the projector input vs projector output resolutions was noted. As a result, 4k input requirement of projectors is being eliminated, similar to output resolution, also specifying that these should be DLP single chip projectors. The minimum operating temperature range requirement set out for the Video Laser 1-chip Projector (it being 0-45°C) was also discussed, which is usually a requirement for outdoor equipment. Considering that this equipment will be used indoor the operating temperature range is being reduced to 0-40 °C as a minimum requirement to make it more appropriate. Offers covering a wider range will also be considered.

Consequently, the following changes to the text of **Item A** is being introduced and is to be reflected to all references to Item A throughout the Tender Dossier (deleted text is stricken through and new text is in bold and underlined):

'A. Video Laser 1-chip DLP Projector with supplied interchangeable lens

- Not less than 8,000 lumens, 2,400:1 contrast ratio minimum.
- Operation noise should not exceed 45dB. Resolution WUXGA or better and accept **4K HD** signal or better.
- Projectors needs to have the following input connectors: HDMI, ~~DVI-D~~, VGA, LAN, and HD SDI, and USB.
- Projectors needs to have internal keystone capabilities and has to be able to be rotated 360 degrees vertically. Including brackets for wall mounting as specified by the manufacturer of the projector. The colour (black) of the bracket should match the outer case colour black of the projector.
- Lens: Powered Lens shift, Zoom and Focus, motorised and interchangeable and with edge blending facility
- Remote controlled operated – projectors and their lenses shall be remote control operated. One remote control, complete with batteries, for each projector is required as part of the deliverable
- Minimum Lamp life: 4000 hours full brightness

- The Size of the effective display area for each projector is that shown in the drawing.
- Operating temperature: covering at least the range from ~~0°C to 40~~ ~~45°C (32°F to 104°F)~~.
Operating humidity: 20% to 80% (no condensation)
- Power supply cable 2m long and terminated with a 13A 3-pin UK type standard plug that complies to BS1363'

1.2 **Item B – High Resolution LCD multimedia projector and hanging brackets, with at least the following specifications:** The minimum operating temperature range requirements set out for this item (it being 0-45°C) was also discussed, which is usually a requirement for outdoor equipment. Considering that this equipment will be used indoor the operating temperature range is being reduced to 0-40 °C as a minimum requirement to make it more appropriate. Offers covering a wider range will also be considered.

Consequently, the following changes to the text of Item B is being introduced and is to be reflected to all references to Item A throughout the Tender Dossier (deleted text is stricken through and new text is in bold and underlined):

- 5,000 ANSI Lumens or better; 10,000:1 Dynamic Contrast or better; HD1080 Resolution or better;
- HDMI 1.4 + HDBaseT Input; Geometry Correction;
- Remote controlled operated – projectors. One remote control, complete with batteries is required as part of the deliverable
- Operating temperature: /covering at least the range from ~~0°C to 40~~ ~~45°C (32°F to 104°F)~~
Operating humidity: 20% to 80% (no condensation)
- The Size of the effective display area for this projector is such that it can project a clear video and/or presentation on the opposite wall during a presentation
- Power supply cable should be 2m long and terminated with a 13A 3-pin UK type standard plug
- that complies to BS1363.

1.3 **Item C – Top Table Media Server:** the required software needs to be able to control the lighting via DMX.

1.4 **Item F - Pedestal mounted interactive table touch screen monitor 55" 4K:** A question as to whether the touch screen monitor should run Windows was raised. It was clarified that the tender dossier is clear in this regard specifying an integrated Android 5.0 engine as minimum requirement. Consequently, bidders are instructed to meet the requirements as set in the Technical Specifications.

1.5 **Item G2 - Audio System, with wall hanging brackets, for Audio Visual Room:** It was explained that the audio amplifier requested in the tender for the audio-visual room will need to serve two purposes: one to serve as an amplifier for the daily audio-visual show and the other as a

microphone amplifier for person-driven type of presentations. As a result, bidders need to ensure that the audio amplifier requested in the tender serves the two purposes effectively.

In addition, the following changes to the text of this item is being introduced and is to be reflected to all references to Item G2 throughout the Tender Dossier (deleted text is stricken through and new text is in bold and underlined):

'Professional Audio System, including amplification and with wall hanging brackets, for Audio Visual Room: The audio facility should be designed to deliver a professional surround sound experience with a signal to noise metric of at least 90DB SPL . 50W/25W/12W @ ~~100V~~ 30W on 8 ohm - Freq response 100-20Khz (-10dB) SPL 1W/m @ 1KHz.:90-dB - coverage angle 1KHz/4KHz (-6db) 140° / 90°. The Audio System should be capable to reach 90dB SPL for an indoor space of 9x8mtrs.'

1.6 Item H: **'Table-top audio mixing amplifier:** the following changes to the text of this item is being introduced and is to be reflected to all references to Item H throughout the Tender Dossier (deleted text is stricken through and new text is in bold and underlined):

'Table-top audio mixing amplifier: The item must at least meet the following minimum requirements:

- Table-top mixing amplifier with the following minimum requirements: Output RMS 160W on ~~100V~~/70V/8ohm;
- mixing section at least 4 MIC/Line balanced inputs;
- 3 auxiliary unbalanced inputs;
- recording output;
- volume, treble, bass, controls - Power supply auto switch 100~240V 50/60Hz.
- Power supply cable should be 2m long and terminated with a 13A 3-pin UK type standard plug that complies to BS1363.'

1.7 **Item P - Automated lighting controls including the following:** the trussing requested under this item is black as identified under Section 4.1. It will be placed horizontally, and thus requires no base plates. This trussing can be triangular or squared as long as it can take clamps for the attachment of light fittings to emit upward lighting. The clamps must also be included in the offer.

1.8 **Spare Parts:** All equipment spare parts are required to be premium quality and genuine products. Projector lamp should include housing and lifetime should be of minimum 3000 hours.

Clarification No. 2

Replies to written requests for information from the Humanitas Foundation

2.1 **Q.** Further to the clarification meeting ERDF.PA5.0106/4: TENDER FOR THE SUPPLY, INSTALLATION & COMMISSIONING OF AUDIO VISUAL EQUIPMENT FOR THE CULTURAL AND RELIGIOUS TOURISM EXPERIENCE WITHIN ST. DOMINIC'S PRIORY IN RABAT of

16.07.2019, we are hereby querying the change in the title of Item A from " Video Laser 1-chip Projector with supplied interchangeable lens" to " Video Laser 1-chip DLP Projector with supplied interchangeable lens".

By making this change you have simply limited your choice of projector manufacturers for this project and eliminated Epson projectors from this tender.

Epson has been the world's No. 1 selling projector every year since 2001, and last year they became the best selling Pro-AV Projectors in Europe.

The main advantages of Epson 3LCD Projectors are:

1. Epson 3LCD Projectors project brighter colours than single-chip DLP projectors, simply because there is no colour filter in front of the light source
2. They are usually cheaper than single-chip DLP projectors
3. They all come with a 5-year / 20,000 hr warranty
4. The light source is never changed throughout the life-span of the projector (ie no lamps required)

Should you require a demonstration of the product to substantiate Epson's claims, we will be happy to provide this.

I would like to thank you for taking our request into consideration.

A. This project is site and content specific and requires high performance DLP technology projectors to satisfy the project's envisaged outputs. DLP technology is an industry standard technology for high end projects such as this project, requiring a very specific set up design, full visual mapping accessibility and interfacing with other robust projectors and high-end audio-visual content players. Therefore, the project requires DLP technology projectors for item A.