



MADAMA BUTTERFLY

**LICITACIÓ DEL SUBMINISTRAMENT EN RÈGIM DE LLOGUER DEL SISTEMA DE
MOTORITZACIÓ I CONTROL I EL SERVEI DE MUNTATGE I DESMUNTATGE NECESSARIS
PER A LA ESCENOGRAFIA DE MADAMA BUTTERFLY DE LA TEMPORADA 2024-25**

**TENDER FOR THE RENTAL OF THE MOTORS, MOTOR CONTROL SYSTEM AND THE
ASSEMBLY AND DISASSEMBLY SERVICE REQUIRED FOR THE SET OF MADAMA
BUTTERFLY FOR THE 2024-25 SEASON.**

**PLEC DE PRESCRIPCIONS TÈCNIQUES
TECHNICAL SPECIFICATIONS DOSSIER**

DATA: 04/06/2024



**TECHNICAL SPECIFICATIONS FOR THE RENTAL OF THE
MOTORS AND THE MOTOR CONTROL SYSTEM
REQUIRED FOR THE SET OF “MADAMA BUTTERFLY”**

04/06/2024

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1 INTRODUCTION

During the 24-25 Liceu's season (*Chasing a dream*), The Liceu Opera House has programmed the opera, MADAMA BUTTERFLY (coproduction Liceu Opera House & Royal Opera House). This opera has some elements (10 venetian panels and a moving track floor) that have movements during the performance with a motorized system. The original control of this motorized system is no longer in the production and therefore this control system needs to be replaced.

In the 2023, the Royal Opera House made a revival of MADAMA BUTTERFLY and replaced the original control motor system with the renting of a new control system, owned by ABSOLUT MOTION CONTROL. This company designed a control system specially adapted for the set of MADAMA BUTTERFLY and achieve a successful set up & a functional system.

The Liceu, as well as the Royal Opera House, does not have the necessary material and know-how to build by itself a new control system for this production. That is why the Liceu needs to rent the same control system from ABSOLUT MOTION CONTROL to achieve the same successful set up & a functional system.

2 TARGET OF THIS CONTRACT

The purpose of the contract is the rental of the motors and the motor control system (including racks, safeties, desks, cables, etc...), as well as the technical assistance for the assembly, start-up, trespassing of information, and dismantling of all necessary equipment's to build a proper functional system of the set of MADAMA BUTTERFLY, part of the Liceu Season 24-25.

3 TECHNICAL ISSUES PART OF THIS CONTRACT

Venetian panels: The production has 10 Venetian panels of various weights and sizes that must be lifted up/down via 10 winches. The tenderer shall provide everything up to the braked servo motor; the 10 Venetian panels, the gearbox, winch, rigging and ropes shall be provided by the production (Liceu).

Actuator control: The Venetian blinds shall open and close via 5 off free issued 24V DC actuators. The tenderer shall integrate them with the existing actuator control system.

1 off tracking winch for the floor track: The production has a floor track with different positions that shall be driven via a free issued steel wire rope winch. The tenderer shall provide everything up to the braked servo motor; the gearbox, winch, rigging and ropes shall be provided by the production (Liceu).

For all mentioned before, the equipment need is the following:

- 3 off Rack [Four]
- 1 off Safety [Controller]
- 1 off IO [Controller]



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2 off Stop [Box]
11 off IO [Box]
1 off Desk [Five]
1 off Desk Loom
11 off Motor Power Cables 50m
11 off Auxiliary Brake Cables 50m
13 off EtherCAT Cables 50m
11 off 3.5kW Braked Servo Motors
10 off Auxiliary Brakes (10Nm)
1 off Rack One [Panel]

4 PLANNING & STAFF NEEDED

The planning and staff needed will be the following:

Previously to the 6/11/24 (Date to be agreed with Royal Opera House)

Transport of the material from the tenderer warehouse to Aberdare (warehouse of the Royal Opera House in Wales). There, the equipment will travel with the production MADAMA BUTTERFLY together to Barcelona in trailers. The material must have its own ATA carnet.

6/11/24

Unload of the material in Barcelona (Liceu Opera House) from Aberdare.

10/11/24

Travel of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician to Barcelona.

11/11/24

Working day of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician

12/11/24

Working day of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician

13/11/24

Working day of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician

14/11/24

Working day of 2 technicians from the tenderer & Trespassing day: 1 Production Automation + 1 Automation Technician

15/11/24



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Travel back of 1 Production Automation + 1 Automation Technician

Set up on stage: November 23rd & 24th 2024.

Rehearsals: From November 25th 2024 to December 7th 2024

Performances: From December 8th -28th 2024

28/12/24

Travel of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician to Barcelona

29/12/24

Working day of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician

30/12/24

Working day of 2 technicians from the tenderer: 1 Production Automation + 1 Automation Technician
Once the dismantling is done → Loading of the material back to Aberdare. The equipment will travel with the production MADAMA BUTTERFLY together to Aberdare in trailers. The material must have its own ATA carnet.

31/12/24

Travel back of 1 Production Automation + 1 Automation Technician

After 31/12/24 (Date to be agreed with Royal Opera House)

Transport of the material from Aberdare (warehouse of the Royal Opera House in Wales) to the tenderer warehouse

At all times the technicians of the company of the tenderer will be assisted by Liceu technicians.

5 LOADING / UNLOADING, TRANSPORT AND INSURANCE

The transport from the warehouse of the tenderer to Aberdare (warehouse of the Royal Opera House in Wales) and return would be organized and paid by the tenderer according to the planning in this document.

The transport from Aberdare (warehouse of the Royal Opera House in Wales) to Liceu Opera House (Barcelona) and return would be organized and paid by the Liceu according to the planning in this document.

The documentation and ATA carnet will be organized and paid by the tenderer.

The loading and unloading at the warehouse of the tenderer will be done and paid by the tenderer.

The loading and unloading at Aberdare will be done and paid by Royal Opera House.

The loading and unloading at Liceu will be done and paid by Liceu.

The insurance of the equipment during the rental period will be contracted and paid by Liceu. The amount insured will be the one declared in the ATA carnet, and the conditions of the insurance will be agreed with the tenderer.



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6 DOCUMENTATION

The rental company must supply all the equipment with all the technical data, layouts and instructions, needed.

Technical Contact: In addition, it will be essential to establish a person in charge with a mobile phone as a contact for remote technical assistance if necessary.

Marc Comas



Oficina Tècnica
Gran Teatre del Liceu