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COUNTRY:	EU
PHONE:	/
E_MAIL:	paolo.ciliegi@inaf.it

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CATEGORY:	ORIG
FORM:	F02
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## Contract notice

### Supplies

#### Legal Basis:

Directive 2014/24/EU

#### **Section I: Contracting authority**

##### I.1) **Name and addresses**

Official name: INAF OAS

Postal address: via Gobetti 93/3

Town: Bologna

NUTS code: IT Italia

Postal code: 40129

Country: Italy

Contact person: PAOLO CILIEGI

E-mail: [paolo.ciliegi@inaf.it](mailto:paolo.ciliegi@inaf.it)

##### **Internet address(es):**

Main address: <https://www.oas.inaf.it/en/>

Address of the buyer profile: <http://wwwmorfeo.oabo.inaf.it/>

##### I.3) **Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at:

[https://inaf.ubuy.cineca.it/PortaleAppalti/it/homepage.wp?actionPath=/ExtStr2/do/FrontEnd/Bandi/view.action&currentFrame=7&codice=G00768&\\_csrf=H1KEWE6VUR7XHYP9HRRDALVCRE1XPPI](https://inaf.ubuy.cineca.it/PortaleAppalti/it/homepage.wp?actionPath=/ExtStr2/do/FrontEnd/Bandi/view.action&currentFrame=7&codice=G00768&_csrf=H1KEWE6VUR7XHYP9HRRDALVCRE1XPPI)

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted to the abovementioned address

##### I.4) **Type of the contracting authority**

Other type: Research Institute

##### I.5) **Main activity**

Other activity: Research

#### **Section II: Object**

##### II.1) **Scope of the procurement**

###### II.1.1) **Title:**

Supply of two Deformable Mirrors for the MORFEO instrument, the Adaptive Optics module for the ELT Telescope

Reference number: CIG 9810513370

###### II.1.2) **Main CPV code**

38630000 Astronomical and optical instruments

###### II.1.3) **Type of contract**

Supplies

###### II.1.4) **Short description:**

Supply of two Deformable Mirrors for the instrument MORFEO, the Adaptive Optics module for the ELT telescope.

Design, production, assembly, integration, verification at the supplier's premises as well as delivery and commissioning of Mirrors at the INAF Integration Hall in Bologna (Italy).

Contract developed in two phases. The first phase is dedicated to the final design and starting of early procurements for Long Lead Items. The maximum cost for the first phase is € 3.500.000,00. The second phase (subject to approval of the final design) is dedicated to the completion of purchases, realization and supplies of mirrors. The maximum cost for the second phase is € 11.500.000,00.

Maximum contract duration: 57 months from the signature of the contract.

II.1.5) **Estimated total value**

Value excluding VAT: 15 000 000.00 EUR

II.1.6) **Information about lots**

This contract is divided into lots: no

II.2) **Description**

II.2.3) **Place of performance**

NUTS code: ITH55 Bologna

Main site or place of performance:

The two deformable mirrors must be delivered in the MORFEO Integration Hall located at the INAF OAS Institute, Via Gobetti 101, Bologna, Italy

II.2.4) **Description of the procurement:**

This procurement concerns the two Post Focal Deformable Mirrors (DM1 and DM2) and all the related documentation of the MORFEO Instruments, the Adaptive Optics module for the ELT Telescope.

A detailed description of the technical specification of the two Deformable Mirrors is available in the procurement documents. The contract shall comprise the following phases:

DM1 Phase 1 (firm phase) Design and performance analysis of DM1

Procurement of elements necessary for the construction of DM1 which require long production times (list to be proposed by the contractor and to be approved by INAF at contract signature)

DM2 Phase 1 (firm phase) Design and performance analysis of DM2

Procurement of elements necessary for the construction of DM2 which require long production times (list to be proposed by the contractor and to be approved by INAF at contract signature)

DM1 Phase 2 (conditional phase) Procurement and/or construction of the elements needed to build DM1 and their Assembly

Transfer of Ownership of the complete set of components of DM1

Integration and Factory Test of DM1

Delivery to Bologna Integration Hall,

On-site Test and commissioning of DM1

40 hours of training to INAF personnel and, if requested, to ESO personnel

DM2 Phase 2 (conditional phase)

Procurement and/or construction of the elements needed to build DM2 and their Assembly

Transfer of Ownership of the complete set of components of DM2

Integration and Factory Test of DM2

Delivery to Bologna Integration Hall,

On-site Test and commissioning of DM2

40 hours of training to INAF personnel and, if requested, to ESO personnel

For each DM the transition between Phase 1 and the (optional and not granted)

Phase 2 will be subject to internal and external conditions:

INAF accepts the Final Design for that DM upon review and joint recommendation by the MORFEO Consortium and ESO

#### ACCEPTANCE PROCEDURE

For both DM the acceptance procedures shall be as follows:

##### Phase 1

The acceptance of the Final Design will be done by evaluating the requested documents.

The acceptance of the (optional) Start of Early Procurement will be done by evaluating the procurement documentation and verifying the execution of the proper agreed procedure.

##### Phase 2

For Phase 2 there will be two separate acceptance procedures.

The first acceptance procedure consists in the verification that all components of a DM are present at the Contractor premises and have the required characteristics. After this first acceptance the Integration of the DM can start.

The second acceptance process for the physical equipment (DM1, DM2) will be carried out through structured test sessions. These test sessions will verify that the DM fulfils all the technical specifications. The test sessions will be executed at the Factory premises and, later, at the INAF Integration site.

The final acceptance is reached when all the waivers for both DM are closed.

#### TIMELINE and MILESTONES

The date of the Kick Off Meeting of Phase 1 (T0) will be decided at the time of the contract signature and must in any case take place within 30 days from the date of the contract signature.

The start of Phase 2 (T1) will happen when all Action Items arisen from DMS' FDR are closed.

In the following schedules we have assumed, as a tentative reference,  $T1=T0+18$ .

However T1 could be different from that assumption.

All the dates of milestones are to be considered tentative and will be confirmed at project start, except for the following ones that are fixed:

the date of DM2 Transfer of Ownership (DM2 Integration Readiness), that is constrained by the rules of the National Fund for Recovery and Resilience (PNRR, the European programme managed by the Italian Research Ministry that funds the DM2);

this date is fixed to 30th June 2025, unless possible shifts according to PNRR rules;

the end of DM1 Phase 2 and of DM2 Phase 2 with respect to T1 ( $T1+35$  for DM2 and  $T1+39$  for DM1)

II.2.5) **Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6) **Estimated value**

Value excluding VAT: 15 000 000.00 EUR

II.2.7) **Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months: 57

This contract is subject to renewal: no

II.2.10) **Information about variants**

Variants will be accepted: no

II.2.11) **Information about options**

Options: no

II.2.13) **Information about European Union funds**

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project:

This supply is partially financed by the PNRR, Public Notice No. 3264 of 28/12/2021 for the submission of project proposals for "Strengthening and creation of Research Infrastructures" to be financed under the PNRR Mission 4, "Education and Research" - Component 2, -Investment line 3.1, Investment line 3.1, financed by European Union, project IR0000034, STILES, CUP : C33C22000640006

II.2.14) **Additional information**

More information on the MORFEO project available at <http://wwwmorfeo.oabo.inaf.it/>

**Section III: Legal, economic, financial and technical information**

III.1) **Conditions for participation**

III.1.1) **Suitability to pursue the professional activity, including requirements relating to enrolment on professional or trade registers**

List and brief description of conditions:

Description in the procurement documents

III.1.2) **Economic and financial standing**

Selection criteria as stated in the procurement documents

III.1.3) **Technical and professional ability**

Selection criteria as stated in the procurement documents

**Section IV: Procedure**

IV.1) **Description**

IV.1.1) **Type of procedure**

Open procedure

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- IV.1.3) **Information about a framework agreement or a dynamic purchasing system**
- IV.1.8) **Information about the Government Procurement Agreement (GPA)**  
The procurement is covered by the Government Procurement Agreement: yes
- IV.2) **Administrative information**
- IV.2.2) **Time limit for receipt of tenders or requests to participate**  
Date: 16/07/2023  
Local time: 23:59
- IV.2.3) **Estimated date of dispatch of invitations to tender or to participate to selected candidates**
- IV.2.4) **Languages in which tenders or requests to participate may be submitted:**  
Italian
- IV.2.7) **Conditions for opening of tenders**  
Date: 17/07/2023  
Local time: 09:00  
Place:  
To be decided  
Information about authorised persons and opening procedure:  
To be decided

**Section VI: Complementary information**

- VI.1) **Information about recurrence**  
This is a recurrent procurement: no
- VI.3) **Additional information:**
- VI.4) **Procedures for review**
- VI.4.1) **Review body**  
Official name: INAF  
Town: Bologna  
Country: Italy
- VI.5) **Date of dispatch of this notice:**  
13/06/2023