
Modello di Proposta Tecnica - Technical Proposal Template

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Procedura Aperta ai sensi dell'Art.71 del D.Lgs. 36/2023, per l'affidamento della 'Progettazione, realizzazione e consegna presso l'INAF-OAAb del Sistema Optomeccanico e materiale accessorio dell'Unità di Calibrazione (CU) dello strumento ELT-MORFEO"

CUP: C42F15000230005 – CIG: B6D2E18748

PROPOSTA TECNICA – TECHNICAL PROPOSAL

The Technical proposal shall comprise at least the following sections:

1. Executive summary

The main driving factors of the technical proposal are highlighted together with the main critical areas identified

2. Understanding of the technical specifications

The bidder performs a detailed analysis of the technical specifications, showing its understanding of the rationale behind and of the driving factors.

Design drivers (designs of deliverable Items) shall be clearly identified.

An analysis of the system context and of the relevant interfaces is also done.

3. Proposed solution

The solution proposed by the bidder is described in detail, clearly highlighting the architecture, the system components and the interfaces between them.

The technological choices are clearly described, together with the identification of critical aspects and of strategies for addressing them.

A clear decomposition of the proposed solution is presented showing the make-or-buy analysis and the logical and temporal dependencies between components.

The possible need for prototypes, simulators and auxiliary equipment must be stated.

The strategy for Assembly, Integration and Test is described.

Physical and Functional architectures and definitions; Product Breakdown Structure

Provide a brief description of the physical and functional architectures of the deliverable items; set the underlying definitions and provide the Product Breakdown Structure.

Provide conceptual designs for each item of the Receiver; outline conditions of use and limitations, if any. Set preliminary safety factors.

Identify internal interfaces (between deliverable Items) and their dimensioning characteristics explaining how the suggested technical solutions will meet the requirements.

Maintainability concept

Outline operational and maintainability concepts, at the level of the deliverable Items.

Development Plans (if any)

Explain any development that will be required in order to bring any process or technology that underlies the design and fabrication of the deliverable Items, and that will be required to bring said process or technology to sufficient maturity.

The bidder shall provide a description of the analysis he/she intends to perform in order to develop designs and of those he/she intends to perform in order to verify their compliance (verification by analysis).

4. Technical compliance matrix

For each of the requirements expressed in the technical specification the bidder clearly states if the proposed solution is fully compliant (C), partially compliant (PC) or not compliant (NC).

A "comment" field in the matrix indicates the reasons for the non compliance or partial compliance to a requirement. This field can also be used to clarify how the bidder intends to fulfill the requirement, or any assumption on which the compliance is based. For the requirement that defines numerical values , an assessment of the expected values is mandatory.

5. TRL Assessment

Technology risks shall be mitigated to an acceptable technology readiness level (according to the SOW definition). In the technical proposal it shall be demonstrated that (at least) TRL 4 is achieved for every item.

6. Options and Backups

This section shall describe any backup and/or option offered to mitigate risks, or to provide potential advantages of cost, risk, performance, or schedule.

The total length of the technical proposal shall not exceed 70 pages (excluding tables and drawings).