## **Detailed Format of the Proposal**

Proposals for both M and L missions should be limited to 36 pages including all appendices. The following proposal format and content should be considered as a guide to proposers. Page limits for each section are indicative only and not mandatory.

- a) <u>Executive Summary</u> (Page limit = 2)
- b) Introduction (Page limit = 1)
- c) Scientific objectives (Page limit = 11)
- d) <u>Mission profile proposed to achieve these objectives</u> (Page limit = 2
  - i. Launcher requirements (c.f. Annex 4)
  - ii. Orbit requirements
  - iii. Ground segment requirements
  - iv. Special requirements
  - v. Critical issues
- e) Proposed payload instrument complement required to achieve science objectives (Page limit = 9)
  - i. Overview of all proposed payload elements
  - ii. Summary of each instruments key resource characteristics
    - 1. Description and key characteristics
    - 2. Performance assessment with respect to science objectives
    - 3. Resources: mass, volume, power, OBDH and telemetry
    - 4. Pointing and alignment requirements
    - 5. Operating modes
    - 6. Calibration requirements
    - 7. Special requirements (including, if appropriate, proposed ESA provided items)
    - 8. Current heritage and Technology Readiness Level (TRL)
    - 9. Proposed procurement approach & international partners
    - 10. Critical issues

- f) <u>Basic spacecraft key factors</u> (Page limit = 5)
  - 1. Number of spacecraft
  - 2. Attitude and orbit control required: spinner/scanner/3-axis stabilized and associated requirements
  - 3. On-board data handling and telemetry requirements
  - 4. Mission operations concept (Ground Segment)
  - 5. Estimated overall resources (mass and power)
  - 6. Specific environmental constraints (EMC, temperature, cleanliness)
  - 7. Special requirements
  - 8. Current heritage (assumed bus) and Technology Readiness Level (TRL)
  - 9. Proposed procurement approach & international partners
  - 10. Critical issues
- g) <u>Science Operations and Archiving (Page limit =2)</u>
  - i. Science Operations Architecture and share of responsibilities
  - ii. Archive approach
  - iii. Proprietary data policy
- h) <u>Key technology areas</u> (Page limit = 2)
  - i. Payload TRL level (cf. Annex 4) and technology development strategy if applicable
  - ii. Mission and Spacecraft technology challenges
- i) <u>Preliminary programmatics/Costs</u> (Page limit = 2)
  - i. Overall proposed mission management structure \*
  - ii. Mission schedule drivers (technology developments etc)
  - iii. Payload/Instrument Costs
    - Assumed share of payload costs to ESA
    - Estimated non-ESA payload costs
  - iv. Overall mission cost analysis
- i) <u>Communications and Outreach</u> (Page limit =1)
  - In the case of a collaborative proposal, elaboration of the role of each party in the collaboration is required.