



Garching, 9 July 2010
Doc. ref. 10074/LET/CP/YWE-CNI

Subject: Call for Proposals ref. CFP/ESO/10/10957/CNI for the
**Advanced Study for Upgrades of the Atacama Large Millimeter/
submillimeter Array (ALMA)**

Dear Sir, Dear Madam,

ESO invites interested Institutes in the ESO Member States to submit a Proposal(s) for the
“**Advanced Study for Upgrades of the Atacama Large Millimeter/submillimeter Array (ALMA)**”, as specified in the attached documents which form an integral part of this Call for Proposals:

- General Information and Instructions for the Preparation of the Proposal (Annex 1);
- Special Conditions Governing the Call for Proposals (Annex 2);
- Proposal Form (Annex 3);
- General Conditions Governing Invitations to Tender and Tenders, Munich, May 2007 (Annex 4);
- General Conditions of ESO Contracts, Munich, December 2009 (Annex 5);
- Acknowledgement of Receipt (Annex 6);
- Bidder's Query Form (Annex 7).

Questions related to this Call for Proposals as well as any request for documentation referred to in the present documents shall be addressed to:

European Organisation for Astronomical Research in the Southern Hemisphere (ESO)
Contracts and Procurement
Chris Nieuwenkamp
Karl-Schwarzschild-Str. 2
DE-85748 Garching, Germany
Telefax +49.89.3200.6456
e-mail: cnieuwen@eso.org with copy to ywesse@eso.org.

The closing date for the dispatch of your Proposal(s) using the enclosed Form is **Wednesday 15 September 2010**.

Note: It is allowed to submit more than one Proposal. In such instance, Bidders shall ensure that each Proposal complies fully with all the applicable requirements, including content, packing, dispatch, etc.



European Organisation
for Astronomical
Research in the
Southern Hemisphere

Organisation Européenne
pour des Recherches
Astronomiques
dans l'Hémisphère Austral

Europäische Organisation
für astronomische
Forschung in der
südlichen Hemisphäre

ESO is organizing a 1-day information meeting at its Headquarters in Garching, near Munich, Germany, on 19 July 2010. Individuals interested in this meeting should communicate their intention to participate preferably by c.o.b. Friday, 16 July 2010, to the contact for Scientific / Technical matters, Leonardo Testi, e-mail ltesti@eso.org, telefax +49 89 3200-6514, with copy to cnieuwen@eso.org and ywesse@eso.org, telefax +49 89 3200-6456.

We draw your attention to the Attachment to this letter, which spells out the obligations of Bidders regarding Confidentiality and Intellectual Property matters in relation to this Call for Proposals.

Finally, we wish to confirm that the Bidder shall bear all costs associated with the preparation and submission of his Proposal, regardless of the outcome of the Proposal process.

We remain at your disposal for further information which you may consider necessary.

Yours sincerely,

Chris Nieuwenkamp
Contracts & Procurement



Attachment to letter ref. 10074/LET/CP/YWE-CNI

CONFIDENTIALITY UNDERTAKING

Bidders having received the present Call for Proposals documents undertake to use the drawings and/or other engineering particulars passed on to them by ESO, and/or any of the information embodied therein, solely for the purpose for which they were released to them and to make no other use thereof; they moreover undertake to treat such drawings, particulars and information in strictest confidence and to limit the disclosure of such drawings and/or particulars or copies thereof, and of the information embodied therein, even within their company to such staff members who are committed by law and/or by the provisions of their employment contract to observe secrecy with regard to business matters. They shall, therefore, refrain from passing on the drawings and/or particulars received from ESO or copies thereof or any information embodied therein, to any third party by communication or publication or otherwise.

They recognize that the receipt of these drawings, particulars and/or information from ESO does not constitute a prior use by them in terms of the patent law, and they, therefore, shall not make their receipt a reason for claiming a prior use right to any patent applications which may be filed later by ESO, or by the inventor with ESO's consent.

The above confidentiality undertaking shall not extend to details, know-how or experience, however, when and as far as these constitute known prior art accessible to the public, or have already been in the possession of the Bidder before receipt from ESO, or as far as such drawings, particulars and/or information are lawfully acquired by the Bidder from third parties.

INTELLECTUAL PROPERTY – RIGHTS OF ESO

(Complement to Chapter VI - Intellectual Property and Patent Rights - of the "General Conditions of ESO Contracts")

Any document submitted in reply to the Calls for Proposals shall become the property of ESO. ESO will use commercially confidential or proprietary information solely for the purpose of the evaluation of the Proposals. Documentation and information incorporated in the subsequent Agreement will be governed by Chapter VI - Intellectual Property and Patent Rights of the "General Conditions of ESO Contracts".

Notwithstanding the transfer of ownership of the Study to ESO, the Contractor retains the rights of use and exploitation of the scientific and commercial results of the project, including the right to claim patents for inventions or to protect other exclusive rights and to publish scientific results.

Otherwise the provisions as defined in Chapter VI of the "General Conditions of ESO Contracts" shall apply.

ESO reserves the right to eliminate from considerations Proposals which purport to restrict the use of documents or information beyond these provisions.



ANNEX 1

CALL FOR PROPOSALS No. CFP/ESO/10/10957/CNI

Advanced Study for Upgrades of the Atacama Large Millimeter/submillimeter Array (ALMA)

General Information and Instructions for the Preparation of the Proposal

EXECUTIVE SUMMARY

This Call is to invite Proposals from European Institutes for studies relevant to the ALMA Development Plan. The primary aims are:

- to give European groups the opportunity to propose ALMA upgrades that may later be implemented as part of the ALMA Development Plan;
- to support the development of conceptual and detailed designs for ALMA upgrades; and
- to encourage relevant long-term research and development.

The completed studies will be used, together with similar studies from the other ALMA partners, to devise and implement the ALMA Development Plan. Limited funding is available to support the studies and this will be allocated on a competitive basis. Studies partly or fully supported from external sources are also solicited and, if presented, will be considered in the definition of the ALMA Development Plan.

The response to this Call should be a completed Proposal Form together with a 10 – 15 page outline of the proposed study, to be delivered by 15 September 2010. It is expected that the funded studies will start at the beginning of 2011.



INTRODUCTION

The Joint ALMA Observatory construction efforts are proceeding with the aim of completing the project as defined in the baseline trilateral agreement by 2013. The ALMA project started the Commissioning and Science Verification phase last January, with the goal of releasing a call for Early Science observations by the end of 2010. Two years ago, the ALMA Board started the process of producing an ALMA Development Plan, in order to maintain ALMA at the forefront of astrophysics throughout its expected lifetime. To ensure the implementation of the ALMA Development Plan, the ALMA operations budget includes a line dedicated to ALMA upgrades. This budget line begins at a low level and ramps up to approximately 12.4M\$/yr (corresponding to an ESO share of 4.65M\$/yr) from 2015 onward. To develop a proper plan for ALMA upgrades, the ALMA Science Advisory Committee, with input, among others, from the European ALMA Science Advisory Committee and astronomers from the community, has prepared a report that outlines the scientific priorities for ALMA development in the coming decade. These scientific priorities imply a wide range of upgrade projects at different levels of technical readiness and cost, to be implemented over a range of timescales.

The ALMA Development Plan will be overseen by the Joint ALMA Observatory (JAO), which will issue calls for ALMA upgrades whose implementation will be assigned on a competitive basis. The details of this process are currently under discussion. To plan how to phase and focus these calls, the JAO and the ALMA Board require detailed analyses of costing, readiness and timeline for the possible options.

It is likely that any upgrade will be phased in the same way as were the major work packages for the ALMA construction project. The principal phases are:

1. Conceptual study, including scientific justification, specification and outline costing;
2. Prototype/pre-production (this would be appropriate for a large-scale upgrade such as a new receiver band, but not for small projects);
3. Full production and delivery.

In Europe we expect to engage the community strongly in the ALMA Development Plan, following the practice that ESO has adopted with optical-infrared instrumentation and during ALMA construction. It is thus natural to involve the community in the definition of the ALMA Development Plan by means of preparatory studies for ALMA upgrades, which also take account of work that has already been carried out in Europe.

In this context, this Call for Proposals for Advanced Study of ALMA Upgrades is intended to provide the required input to the ALMA Development Plan. Applicants may answer this call by asking for (partial) support to complete a study or by stating their intention to submit an ALMA upgrade study based on existing work or funded from other sources. The timeline for completion of the studies will be agreed between ESO and the selected proponents on a case by case basis, see section 3 of this document. This document gives general information on the study to be carried out and on the Special Conditions which apply to this Call for Proposals.



As in the case of the instrument concept studies carried out for other ESO programmes (e.g. the E-ELT instrument concept studies), acceptance of the study proposal and granting an Agreement for the study does not imply that the upgrade will be implemented at the Observatory as part of the ALMA Development Plan, nor, if it will be included, that the Consortium which has carried out the study will automatically be selected to undertake the next phase of the design.

1. ALMA UPGRADE CONCEPT TO BE PROPOSED FOR THE STUDY

This Call is intended to encourage the flow of ideas from the community into the ALMA Development Plan in view of the future implementation of ALMA upgrades. The intention is to seek proposals which enhance the scientific capabilities of the ALMA Observatory either directly (by enabling new science) or indirectly (e.g. by improving operations efficiency or calibration accuracy). The Call does not identify specific science cases to be addressed by the upgrade, nor does it include a set of technical specifications. These must form part of the proposal as indicated below. The final studies will be expected to produce documentation to evaluate scientific and technical specifications, readiness level, timeline and approximate costing for ALMA upgrade projects.

Examples of the areas that could be proposed for the studies include:

1. Technologically ready projects for near term implementation:
 - a. Full production to ALMA specifications of Bands 1, 2 or 5
 - b. Upgrades of existing ALMA receiver bands
 - c. Implementation of VLBI capabilities for ALMA
 - d. Upgrades of the ALMA software system
2. Development of advanced techniques:
 - a. Advanced calibration methods
 - b. Innovative observing modes
 - c. Advanced data processing/analysis tools
3. Research and development for longer term upgrades:
 - a. New receiver systems (additional bands, combinations of existing bands, increased bandwidth, focal-plane arrays)
 - b. Upgrades of the ALMA digital processing systems

It is clear that the potential projects vary enormously in scientific gain, difficulty, cost, timescale and readiness. Very different levels of detail will therefore be appropriate for the studies, as outlined below. The precise scope of the study should form part of the proposal, and will be subject to negotiation.



2. CONTENT OF THE FINAL STUDY REPORT

The tasks to be performed by the Consortium in the different phases will be spelled out in detail in the Statement of Work of the Study Agreement, as will the documents to be prepared and the content of the Final Report of the Study. The precise deliverables will vary between studies, depending on such factors as:

- Scientific justification: specific (for example a new receiver band) or generic (e.g. a calibration technique applicable to all observations);
- Hardware or software;
- Size, cost and duration;
- Immediate or long-term;
- Readiness for construction (development work already concluded or significant research required).

It is strongly recommended that the potential scope and deliverables of the study be discussed informally with ESO before submission of a proposal (contact for Scientific / Technical matters: Leonardo Testi, tel. +49 89 3200-6541, e-mail ltesti@eso.org). In addition ESO is organizing a 1-day information meeting at its Headquarters in Garching, near Munich, Germany, on 19 July 2010. Individuals interested in this meeting should communicate their intention to participate preferably by c.o.b. Friday, 16 July 2010, to the above mentioned contact, with copy to cnieuwen@eso.org and ywesse@eso.org.

The Final Study Report must include, at an appropriate level of detail:

- Quantitative analysis of the key scientific drivers of the proposed upgrade, whether specific or generic, supported by simulations and including comparisons with baseline ALMA capabilities;
- Technical Specification;
- Conceptual design, supported by appropriate analysis;
- Discussion of interfaces with the ALMA system and, if relevant, any new requirements;
- Proposed Consortium structure (if applicable) for the detailed design and implementation of the upgrade, with information on the expertise and facilities at the different member institutes or industrial partners;
- Preliminary estimate of upgrade cost (hardware and FTE) with subsystem breakdown and cash flow;
- Project development schedule;
- Identification of the components and/or subsystems which require R & D and/or represent a risk to the project in terms of cost or schedule.



Additional elements may be appropriate depending on the type and scope of the upgrade. For example, a receiver hardware project for which significant development work has already been completed would be expected to be able to deliver a document package at preliminary or critical design review level, as appropriate, including design and test reports, together with outline plans for the pre- or full-production phases. A long-term project requiring extensive research might, instead, propose to make a survey of relevant technology development together with a plan to build a prototype.

3. DELIVERY OF THE FINAL REPORT

ESO's current planning requires a delivery of the final reports and the associated review meeting **8-24** months after the Kick Off meeting of the study, depending on the timescale agreed with the consortium to complete the study, and in any case not later than **December 2012**. The exact duration will depend on the proposed upgrade and will be defined in the Study Agreement, based on a schedule proposed by the Bidder, subject to ESO approval.

4. STUDY COST TO ESO

ESO may partially support the study effort with a total, fixed payment, which will be defined in the Study Agreement. As a guideline ESO expects to fund the studies at the level of up to 50 kEuro/year. The payment will be linked to progress milestones according to a schedule proposed by the Bidder, subject to ESO's approval, as per Item 5 of the Proposal Form. Proposers who do not require financial support to complete the study are also invited to apply to this call. If no support is requested, the final study will be subject to review in the same way as funded proposals before being considered for inclusion in the ALMA Development Plan.



ANNEX 2

"SPECIAL CONDITIONS GOVERNING THE CALL FOR PROPOSALS"

CFT/ESO/10/10957/CNI

Advanced Study for Upgrades of the Atacama Large Millimeter/submillimeter Array (ALMA)

INTRODUCTION

These Special Conditions are prepared in complement of the "General Conditions Governing Invitations to Tender and Tenders, Munich, May 2007" (Annex 4) and are structured as follows:

SECTION I: GENERAL / ADMINISTRATIVE INSTRUCTIONS AND INFORMATION

This section:

- Sets the rules of communication between the Bidder and ESO in relation to the Call for Proposals;
- Provides some general information about the ESO evaluation process; and
- Summarizes the milestones and associated schedule for this Call for Proposals.

SECTION II: INSTRUCTIONS FOR THE PREPARATION OF THE PROPOSAL

This section provides detailed instructions for the preparation of the Proposal(s).



Section I.

GENERAL / ADMINISTRATIVE INSTRUCTIONS AND INFORMATION

I.1. LANGUAGE

All Proposal documents must be drawn up in English. Any communication and correspondence between ESO and the Bidder shall be in English.

This shall also apply to the subsequent Agreement Documents and associated communication and correspondence.

I.2. AMENDMENTS TO THE CALL FOR PROPOSALS

ESO reserves the right to issue amendments to the present Call for Proposals at any time prior to the closing date for the submission of Proposals.

I.3. ACKNOWLEDGEMENT OF RECEIPT

Invitees to Proposal are requested to send by e-mail or telefax to ESO (e-mail: cnieuwen@eso.org with copy to ywesse@eso.org, telefax +49.89.3200.6456), **at the latest by 23 July 2010**, the form "Acknowledgement of Receipt", attached as Annex 6 to this Call for Proposals, stating whether or not they intend to submit a Proposal.

Failure by a Bidder to return the form shall have the consequence that he will not be included in the mailing list for replies to Bidders' queries or other correspondence related to the Call for Proposals.

I.4. QUESTIONS RELATING TO THE CALL FOR PROPOSALS

For any questions by Bidders concerning the present Call for Proposals, including any request for documentation referred to in this document, the Bidder shall fill in the "Bidder's Query Form", attached as Annex 7 to this Call for Proposals, and return it to ESO (e-mail: cnieuwen@eso.org with copy to ywesse@eso.org, telefax. +49.89.3200.6456) **at the latest by 15 August 2010**.



Questions shall, where possible, make specific reference to the appropriate section(s) of the Call for Proposals' documents. When answering, ESO will forward the reply(ies) together with the question(s) received to all Bidders who have returned the Acknowledgement of Receipt (cf. section I.3 above).

I.5. CLOSING DATE

The closing date, as defined in Article 2.8 of the "General Conditions Governing Invitations to Tender and Tenders" is set at:

15 September 2010

The accepted date of dispatch will be as per postmark or, in case of special delivery, as per Courier Consignment Note. Proposals mailed after the closing date may be rejected, at ESO's sole discretion.

I.6. REQUEST TO POSTPONE THE CLOSING DATE

Requests to postpone the closing date shall not be considered.

I.7. VALIDITY OF PROPOSALS

Article 2.2 of the "General Conditions Governing Invitations to Tender and Tenders" is amended as follows:

A Proposal submitted in response to this Call for Proposals shall commit the Bidder until **30 June 2011**.

I.8. PACKING AND DISPATCH OF PROPOSALS

Two inner envelopes, sealed and marked with the reference number of the Call for Proposals, the title of the content and identification of the Bidder, shall be dispatched in an envelope. The inner envelopes shall contain:

1. Three hard copies plus one electronic copy on CD-ROM of the Proposal Form and the Supplementary Offer, if applicable;
2. Three hard copies plus one electronic copy on CD-ROM of the Scientific – Technical - Management Proposal.



Both sides of the inner envelopes shall be marked as follows:

**CONFIDENTIAL - TO BE OPENED BY THE AWARD COMMITTEE ONLY
(CFP/ESO/10/10957/CNI)**

The outer envelope, carrying the Bidder's name and address, shall be sent to the following addresses:

ESO
Contracts & Procurement
Karl-Schwarzschild-Str. 2
DE-85748 Garching
Germany

I.9. INFORMATION ON DISPATCH OF PROPOSALS

At the time of the dispatch of his Proposal, the Bidder shall send by e-mail or telefax (e-mail: cnieuwen@eso.org with copy to ywesse@eso.org, telefax +49.89.3200.6456) the following information to ESO, Contracts & Procurement:

- reference n° of the Call for Proposals
- date and place of mailing
- number of parcels
- airway bill number of courier consignment note
- name of carrier
- name of the person responsible for posting
- name of the Bidder.

If, the above-mentioned formalities having been fulfilled, the Proposal does not reach ESO within **3 working days after the closing date**, the Bidder will be informed, and an extension may be granted in order to allow him to forward duplicates. Proposals arriving after the expiry of this extension will not be taken into consideration.

I.10. CLARIFICATIONS OF PROPOSALS

ESO reserves the right to ask Bidders for clarifications of their Proposals during the evaluation period. Answers, addressed in writing to the nominated ESO officer of Contracts & Procurement (e-mail: cnieuwen@eso.org with copy to ywesse@eso.org, telefax +49.89.3200.6456), must be received within three days of dispatch of the request, if no other period is stated.



I.11. NO INFORMATION ABOUT EVALUATION DURING EVALUATION PERIOD

Bidders are not entitled to contact ESO staff during the evaluation and selection period to ask for information on the evaluation. ESO reserves the right to eliminate from the evaluation a Bidder contravening this provision.

I.12. AMENDMENT, WITHDRAWAL OR RESUBMISSION OF THE PROPOSAL

Amendment, withdrawal or resubmission of the Proposal will be permitted if they reach ESO before the closing date, in accordance with the dispatch conditions (section I.9).

I.13. EVALUATION OF THE PROPOSALS

The selection of the Bidder will be done by ESO on the basis of an evaluation matrix, which will be based on the following parameters:

- Strength of the Scientific Case for the proposed ALMA upgrade concept;
- Quality of the upgrade conceptual design;
- Readiness for production in the context of the ALMA Development Plan (the aim is to support a range of upgrades including both those which can be implemented rapidly and those requiring longer-term research and development);
- Strength of the consortium organization (if applicable);
- Qualifications of the key personnel of the Study;
- Technical expertise, past experience (also in series production, if relevant) and technical facilities in the Institutes taking part in the Study;
- Assessment of the level of risk inherent in the design;
- Strength of the Scientific Team supporting the Study;
- Level of support guaranteed by the Institutes and the National Agencies;
- Cost of the Study.

I.14. INFORMATION ABOUT THE RESULT OF THE CALL FOR PROPOSALS/ NOTIFICATION OF AWARD OF AGREEMENT

Bidders will be informed in writing of the result of the Call for Proposals after a decision has been taken. The decision on the result of the Call for Proposals will be without appeal, and ESO will not enter into correspondence on the reasons for the decision.



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I.15. SUMMARY SCHEDULE

<i>Milestone</i>	<i>Date</i>	<i>Reference</i>
Release of Call for Proposals	9 July 2010	
Acknowledgement of Receipt	23 July 2010	Section I.3
Deadline for questions by Bidders	15 August 2010	Section I.4
Deadline for request to postpone the closing date	Not applicable	Section I.6
Closing Date	15 September 2010	Section I.5
Validity date of Proposals	30 June 2011	Section I.7



Section II.

INSTRUCTIONS FOR THE PREPARATION OF THE PROPOSAL

II.1. STRUCTURE OF THE PROPOSAL

The Proposal shall be presented in such a way that it can be related, point by point, to the requirements of the Call for Proposals, and shall be in the form and in accordance with any specific provisions specified hereafter.

The Proposal shall be subdivided into the following main elements:

- the PROPOSAL FORM
- the SUPPLEMENTARY OFFER
- the SCIENTIFIC – TECHNICAL - MANAGEMENT PROPOSAL

II.2. PROPOSAL FORM

Proposals cannot be considered unless they are submitted on PROPOSAL FORM CFT/ESO/10/10975/YWE, which is attached as Annex 3 (see Article 2 of the "General Conditions Governing Invitations to Tender and Tenders").

The PROPOSAL FORM must be completed accurately and fully without any erasures or omissions and must be signed by the Bidder.

II.2.1. BIDDER'S LEGAL STATUS AND ORGANIZATION

Bidders shall be legally identified. They shall indicate in the Proposal Form whether and how they have associated themselves for the submission of the Proposal and later will associate themselves for the execution of the Contract, e.g.: Consortium, Joint Venture, Main Contractor/Subcontractor etc. They shall define their responsibility and liability depending on the form of association selected, indicate their registered addresses and name the persons empowered to act as representatives.

Bidders shall ensure that the same information relating to proposed subcontractors is submitted together with the Proposal.



Upon request by ESO, Bidders shall submit any additional information required in relation to this requirement.

II.2.2. PRICES

Prices shall be quoted in Euros (EUR).

Prices shall be deemed to be net, firm and not subject to revision for the entire period of the Agreement.

Prices shall be quoted free of taxes and customs duties (see Article 3.2 of the "General Conditions Governing Invitations to Tender and Tenders").

Prices shall include all supplies and services of whatever nature necessary for the execution of the Agreement.

II.2.3. DELIVERY SCHEDULE AND TERMS OF PAYMENT

The delivery schedule and the payment scheme is specified in the Proposal Form..

II.2.4. SUBCONTRACTORS

II.2.4.a The Bidder shall indicate in the Proposal Form the proposed subcontracts, the country of origin of the subcontractor, the place of execution of the subcontracted work as well as the corresponding share in per cent of the total price of the Proposal.

II.2.4.b Preference should be given to subcontractors from ESO Member States or Chile, unless competent firms from non-Member States offer a more advanced technology/quality, or if significant financial or time savings can be achieved. In any case the main Contractor has the full responsibility for the subcontractor's performance, including the proviso that the subcontractor or the deliverables with respect to their use by ESO are not subject to any export restrictions nor will be.

II.2.5. COUNTRY/IES OF ORIGIN OF THE SUPPLY

The country/ies of origin of the Supplies has/have to be indicated in the Proposal Form. Bidders shall complete the Geographical Distribution Form, showing the countries in which activities are expected to be performed or from which significant purchases are made.



II.2.6. COMPLIANCE WITH CONTRACT CONDITIONS

Any Agreement(s) which may be concluded as a result of this Call for Proposals shall be subject to the "General Conditions of ESO Contracts".

The Bidder shall explicitly state, in the Proposal Form, that the Contract conditions are read, understood and accepted and that any sales conditions of his own do not apply. In case, exceptionally, that he wishes to propose modifications or amendments, the full text of such modifications or amendments shall be given in the Supplementary Offer and the reasons for their being requested shall be clearly explained.

Any reservations, or proposed modifications or amendments to the Contract conditions will be taken into account in the evaluation. Acceptance of a Proposal containing reservations, or proposed modifications or amendments is not to be construed as acceptance of these, until such acceptance is stated in writing by ESO.

II.2.7. THIRD PARTY COMMITMENTS

The Bidder shall indicate, in the Proposal Form, if he has entered into any arrangements or license agreements as to intellectual property rights concerning the subject of the Call for Proposals, either as part of a general arrangement or under an agreement specific to this Call for Proposals. A copy of the document recording the arrangement or agreement, or an appropriate part thereof, shall be submitted with the Proposal. If such arrangement or agreement would result in costs to be borne by ESO, these must be separately identified.

II.2.8. ACCESS TO DATA - RESERVATION AND RESTRICTIONS

(cf. Article 23 of the "General Conditions of ESO Contracts")

If as a result of:

- a commitment with a third party as to intellectual property rights, or
- an existing intellectual property right of the Bidder, or a claim by the Bidder that intellectual property rights will be generated under the Contract which are not paid for by ESO, or
- any other reason,

the Bidder wishes to make any restriction on the rights of distribution and use, as foreseen and defined in the "General Conditions of ESO Contracts", of any data, including documentation, related to the Work under the Contract, such proposed restriction must be clearly defined and justified in the Proposal Form.

Such restrictions will be taken into account in the evaluation and, if contrary to the stated objectives of the Call for Proposals, might render the Proposal unacceptable.

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ESO will not accept reservations made subsequent to the closing date of the Call for Proposals.

II.2.9. ROYALTIES AND LICENCE FEES

ESO will only accept to pay royalties or licence fees on condition that:

- they are clearly identified in the Proposal Form, with the financial basis for their calculation, method of application and total amount; and
- they are demonstrated to be of direct and necessary benefit to the Work to be performed;
- they are not merely the consequence of a general agreement or commitment to a third party;
- they are applied only to that part of the effort to be performed by the Contractor or his subcontractor(s) that is directly related to the subject matter of the royalty or licence agreement.

A copy of the documents justifying the request for the payment of a royalty or license fee, or the appropriate part thereof, shall be included in the Proposal.

II.3. SUPPLEMENTARY OFFER

Any relevant contractual and financial information necessary for a clear understanding of the Proposal must be submitted in a SUPPLEMENTARY OFFER together with the PROPOSAL FORM.

II.4. FORMAT OF THE SCIENTIFIC – TECHNICAL - MANAGEMENT PROPOSAL

The Proposal shall contain the properly filled in Proposal Form and a Scientific-Technical-Management Proposal in a separate document. The latter should aim at a maximum of 15 A4 pages. Even if financial support is not requested for the study, these items are required in order to assess all Proposals fairly in the context of the ALMA Development Plan.

The text of the Scientific – Technical – Management Proposal shall include:

- An outline of the main scientific drivers of the proposed concept and its significance for ALMA.
- A technical description of the proposed upgrade that will be studied.
- A brief account of the interfaces with the ALMA system that will be studied and, in particular, whether modification of existing interfaces is required.



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pour des Recherches
Astronomiques
dans l'Hémisphère Austral

Europäische Organisation
für astronomische
Forschung in der
südlichen Hemisphäre

- A list of the proposed deliverables for the study.
- Names of the key staff who will work on the study.
- A description of the relevant experience of the institute(s) and relevant staff
- If appropriate, a functional diagram of the Consortium organization with an explanation of the role of the different personnel/study teams