Klaas Johannes Dekker
Alpenrosenstr. 15, 85521 Ottobrunn, Germany
T.: +49 152 28794727 E.: hans.dekker@mailbox.org
IBAN DE50 5001 0517 5400 2893 16 | BIC INGDDEFFXXX
USt-IdNr.: DE333614672

INAF/Istituto Nazionale di Astrofisica
Dr. Stefano Covino
Osservatorio Astronomico di Brera
Via Brera, 28,
I-20121 Milano,
Italy

Ottobrunn, 01/05/2023

VAT-ID-Nr of the recipient of the service: 06895721006

OFFER FOR SUPPORT OF CUBES PHASE C

My support of the Phase C of CUBES, for managing the Gratings Workpackage and supporting the Systems Engineering Workpackage, would on average require 16 h per week over the period May 2023 to October 2024.

This period covers the Phase C of CUBES, including some post-review work.

The total amount of the contract is 39 000 €, payable in 6 instalments at the end of each 3-month period starting 01/05/23.

Cost of travel for physical meetings and conferences related to CUBES is not included. and shall be reimbursed separately according to INAF travel regulations.

SCOPE OF THE SUPPORT

Gratings

- guiding the testing of grating samples produced in Phase B at facilities in Brera, in particular stray light
- drawing up the Technical Specification and Statement of Work for the two CUBES gratings
- providing input to system error budgets (efficiency, image quality, alignment) and mechanical design of the grating unit as well as project planning (financial, schedule)
- preparing (in collaboration with INAF administrative staff) the RFQ documentation
- evaluating the offer(s) received and recommending the supplier to be selected
- follow-up of the manufacturing contract (estimated amount 300 - 400 k€, estimated delivery Q4/24), review of monthly reports of the selected supplier
- preparing for and participating in the Long Lead Item review (planned for Q3/23) and the Final Design Review (planned for Q1/ 24) as well as follow up related to these reviews.

Systems engineering and general

- being available as a consultant to the CUBES System Engineer, taking advantage of my experience in developing and commissioning other ESO instruments, in particular UVES, XSHOOTER and ESPRESSO. This implies:
    - co-authoring and commenting relevant system engineering documentation: engineering budgets, interface documentation, system and subsystem specifications, design and analysis documents, MAIT plan, operation and calbration plan,....
    - contributions to the AFC system architecture and algorithms, and to various other disciplines on a case by case basis (alignment, integration,system testing, calibration, commissioning, operation, maintenance)
    - participating in video calls and Face to Face meetings (Systems Engineering, Optics and Project Office)

Sincerely,

K. J. Dekker