

## GOOGLE COURTESY TRANSLATION OF THE MARKET SURVEY NOTICE N. A00085

**TECHNICAL SPECIFICATIONS FOR AWARDING THE CONTRACT RELATING TO THE SUPPLY OF A SKY IMAGER FOR THE AUTOMATIC MEASUREMENT OF THE CLOUD COVERAGE IN THE CONTEXT OF THE PER-ACTRIS-IT PROJECT, THROUGH PROCEDURE NEGOTIATED ON THE U-BUY PLATFORM, AS PROVIDED FOR. 1 PARAGRAPH 2 LETT. B) OF D.L. N. 76/2020, CONVERTED INTO L. 120/2020, AS NOVELLED BY D.L. 77/2021 OF 31/05/2021 CONVERTED INTO LAW N. 108 OF 29/07/2021.**

The object of the supply is the acquisition of an instrument for the measurement of cloud cover in an automatic and continuous manner, a sky imager, which is based on the acquisition of images of the sky from which the cloud cover derives, through data processing. The instrument will be installed outside at the Lampedusa Climate Observation Station and must be equipped with a ventilation / heating system for cleaning the external optics.

Minimum characteristics that the system must guarantee / be equipped with:

- daytime operation
- a 180 ° field of view
- a camera equipped with a fisheye of at least 4 megapixels
- a camera resolution of at least 1920 x 1920 pixels
- integrated datalogger for the acquisition of sky images
- the presence of environmental temperature and humidity sensors equipped with a sunscreen
- a fan and heater integrated in the instrument
- an operating temperature range of -20 / + 50 ° C
- interfacing via Web browser or Windows systems
- a length of the connecting cables to the instrument > 10 m
- cloud cover calculation
- calculation and classification of the percentage of clouds present (thick and / or thin)

Furthermore, the supplier is required:

- i. the delivery of the material to the ENEA Station of Climatic Observations of Lampedusa, Loc. Capo Grecale, 92031 Lampedusa (AG);
- ii. a maximum time for the execution of the supply equal to 90 days from the date of the ENEA order;
- iii. two-year warranty from the date of delivery of the instrumentation;

It should also be noted that:

- in case of delay in delivery with respect to the deadline stated in the offer - except for reasons of force majeure not attributable to the Supplier, which bears the burden of proof - ENEA will have the right to apply a daily penalty for each working day of delay equal to 1 ‰ (one per thousand) of the supply value, it being understood that the total amount of penalties cannot exceed 10% (ten percent) of the net amount of the supply.

- between the provisional award and the final award / U-BUY stipulation, a time period may elapse which cannot be quantified a priori, as it depends on the issue of a decree of the Ministry of University Research.

The procedure will have an estimated amount of € 10,200.00 excluding VAT (12,444.00 VAT included), to be considered as a basis for the economic discount.

Roma, 07/09/2021

Il Responsabile Unico del Procedimento

