

Expression of interest: Acquisition of compact robots for the teaching of programming and computational thinking for initial and primary education

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1. Call aim

Ceibal calls for companies interested in offering "Compact robots to be used in Initial Education, first and second grade of Primary" (5-to-8-years-old children).

The aim of this call is to obtain feedback of different models of Robots in the groups of the first years of Primary Education (5-to-8-years-old children), who participate in the Computational Thinking program. With this, it is intended to gather information on how the different models contribute to the teaching of programming, the development of computational thinking, the development of skills such as critical thinking, creativity, among others. Therefore, it is Ceibal's intention to diversify the products to be acquired, subject to budgetary availability for the year.

Said Robot must be able to execute basic actions such as: move, draw, record and/or reproduce sounds, among others.

The **robots must be compact**, that is to say: robots that need to be assembled or armed for their basic use will not be admitted. Notwithstanding the foregoing, accessories such as programming sheets, maps, boards or other products that are used as part of the set may be offered, which must be priced separately.

Robots must be "unplugged", that is, they must have the ability **to be operated without the need to use other devices, applications and/or programming**. It will be valued that they can be used with devices that allow block programming.

Furthermore, students are expected to be able to use the robot **without the sole need for written instructions**.

2. Background

Although Ceibal has vast experience in the acquisition and distribution of robotics kits, it has not yet ventured into the acquisition and distribution of compact robots (which do not require assembly).

With this line of work to develop, it is sought that the robotics strategy also reaches younger children and teachers of the first stage of formal education for their effective incorporation into the classroom.

3. Target Audience

The target audience of this call are groups of students from the years of Initial Education (students from 5 years old) to 2nd year of Primary Education (students from 5 to 8 years old inclusive).

4. Presentation of the proposals

The bidder must submit its proposal indicating:

- Product overview
- Target audience to which it is oriented
- Technical specifications of the product
- In case of including options, accessories, and/or additional items, you must include their proper description and unit cost of the same.
- Specify capacity and delivery times according to the quoted slots.
- Provider background
- Regulations and standards that the robots, chargers and accessories presented comply with, as well as the materials that compose them, considering compliance with [Directive 2009/48/EC: Toy safety](#)
- Specify product warranty policies

5. Price quote

Unit prices should be quoted according to a scheme of bands by volume. In case of presenting additional, accessory or optional items, they must be quoted separately, otherwise they will be understood as included in the price of the product offered.

A- Initial education and first years of Primary Education					
Band	1 to 50	51 to 100	101 to 500	501 to 1000	+1001
Price per unit in USD (CIF MVD)					

The bands are for reference, and Ceibal is not obliged to acquire a minimum or a maximum.

In the event that a volume discount corresponds, the quote must be made according to the same bands previously mentioned.

5.1 Price quote of additional, accessory and/or optional items.

In case of offering additional, accessory, and/or optional products and/or services, the bidder must specify them and their associated cost per unit.

6. Evaluation

Ceibal will evaluate the product based on its adequacy for the object of this call, the quality of the product, the pedagogical applicability and the economic convenience.

The evaluation will be done according to the criteria:

- Technical characteristics: durability, robustness, autonomy.
- Usability: friendly, intuitive and easy for users to adopt.
- Pedagogical use/applicability: possibilities of being incorporated into the pedagogical proposal for the development of Computational Thinking.
- Adequacy to the target audience (students between 5 and 8 years old)
- Teaching material, additional, accessory, add-on, applications or optional products and/or services.
- However, and considering the call aim, several products may be purchased, not being obliged to choose based on the best technical offer, or the most economical offer.

7. Samples and demos

For the evaluation of the proposals, Ceibal will request samples of the products offered, which must be free of charge. They may be returned at the request of the supplier and in the state resulting from the technical evaluation carried out.

For the delivery of samples, they must be delivered to *Proveeduría de Ceibal* (Av Italia 6201, Predio LATU, Los Ceibos building, CP 11500). The hours of attention to the public are from Monday to Friday from 9:30 am. to 4:00 pm.

In case of presenting associated software, for the evaluation of the proposals, Ceibal will request licenses and/or test users.

Additionally, Ceibal may request demos from bidders if it considers it necessary.