

PUBLIC INTERNATIONAL TENDER TABLETS 8’’ 2026

TECHNICAL SPECIFICATIONS

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June 2025

1. Call Aim

Centro Ceibal calls for a public international tender for the acquisition of up to 70,000 tablets of 8 '' for delivery to beneficiaries of Plan Ceibal.

Tablets must have Zero Touch Enrollment technology for unattended enrollment in Ceibal's MDM. The supplier must assist Ceibal with the initial configuration of this feature.

The products that the successful bidders must deliver to Ceibal are the following:

1. Tablet with cover plus software image developed according to Ceibal's requirements and with Google GMS certification, installed in the devices during the production process.
2. (Optional award item with separate mandatory quotation. See Annex I quotation table):
Manual configurations: disable screen unlock, set default launcher, enable unknown origins, disable GPS, disable google Assistant, Time Zone
3. Spare parts.
4. Documentation requested in section 2.2.

The bidder shall quote separately for the development and certification of an additional software image, which Ceibal may request due to changes in requirements or evolution of Android versions. This image is not the one that will be included in the device at the factory, but a maintenance software image. *See Annex I: Price Tables.*

The bidder shall quote the spare parts in FOB Origin mode.

Bid shall be submitted in accordance with the specifications in section 2. Offer

All products purchased from the Bidder and/or all services provided by the Bidder are governed by the confidentiality and data protection considerations specified in *Annex III: Confidentiality and Data Protection.*

2. Offer

Each bidder may offer a maximum of 2 models. All the documentation presented must be segmented identifying each product by its corresponding model in the technical and economic offers.

2.1. Presentation

The technical offer shall be presented according to the following segmentation, all tables provided by Ceibal shall be provided in pdf and editable format:

1. Folder with factory background specification. It must be detailed:
 - Factory that will produce the devices offered, and submit the complete Factory Data table (see *Annex II: Factory Data*)
 - Overall production volume of the factory in the last 12 months.
 - Tablet production volume of the factory in the last 12 months.
2. Folder with bidder's background. It must be detailed:
 - History of providing similar consumer electronic devices in the last 12 months.
 - History of educational projects in which the company has participated.
 - History of working with the factory that will produce the devices indicated in 1., detailing time working together, projects and volume of devices.
 - List of clients and respective contacts.
3. Folder with tables from section 6. REQUIREMENTS complete.
4. Folder with the documentation requested in section 2.2 DOCUMENTATION complete for each model of tablet offered.
5. (Optional) Folder with warranty specifications in addition to those set forth in section 3. Warranty.
6. (Optional) Folder with specification of delivery terms in case the desirable delivery terms specified in section 4.
7. (Optional) Folder with additional technical information that the bidder considers pertinent to provide.

The economic offer must include a folder with the tables in *Annex I: Complete price tables* of the corresponding device category.

For bidding methodology, please refer to the General Specifications.

2.2. Documentation

The documentation to be included in the technical offer documentation folder, for each model offered, is as follows:

DOCUMENTATION		
MANDATORY WITH THE OFFER		
2.2.1	TECHNICAL SPECIFICATIONS	Technical specifications of each model offered.
2.2.2	DISASSEMBLY TECHNICAL DOCUMENTATION	Technical document detailing tools and procedures for the installation of the device operating system. It should also specify what kind of customizations can be made (see Software Requirements in Section 6 for a reference of required customizations).
2.2.3	SERIAL NUMBER CONFIGURATION	Serial number configuration procedure and tool (see requirement 6.36 SERIAL NUMBER AND BAR CODE).
2.2.4	HARDWARE TEST	Document with functional description of the tool and indication of how to access it from the system.
OPTIONAL WITH THE OFFER		
2.2.5	WIFI ALLIANCE CERTIFICATIONS	WiFi Alliance certifications of the offered network card.

The following documentation is mandatory with each equipment shipment, or with each hardware change, as applicable:

DOCUMENTATION		
MANDATORY WITH EVERY SHIPMENT and/or HARDWARE CHANGE		
2.2.6	RoHS CERTIFICATE	Certificate of compliance with the RoHS standard. (It is NOT required to submit the detailed documents with the applied test protocols).
2.2.7	FCC CERTIFICATE	Certificate of compliance with the FCC standard (detailed documents with test protocols are NOT required).
2.2.8	ENERGY STAR (or equivalent)	Energy Star certificate (or equivalent) of the equipment (tablet/charger) (detailed documents with the applied test protocols are NOT required).
2.2.9	BILL OF MATERIALS (BOM)	Worksheet with all the hardware components that make up the device, each with a code that identifies it, including the casing and any other individual component that can be replaced in case of failure.
2.2.10	SCHEMATICS, LAYOUT and BAI	Schematics, layout and board assembly information (BAI) of the motherboard in digital format. This information shall be delivered once production has started (or at the latest prior to the first shipment) and each time the successful bidder notifies a hardware change.
2.2.11	EXPLODED VIEW DRAWING	Technical drawing of the assembly and relationship between all the atomized parts of the equipment, each one identified with a code. This information will be delivered once production has started (or at most prior to the first shipment) and each time the successful bidder notifies a hardware change.
2.2.12	DATA SHEETS	Data sheets of main components of the device such as battery, screen, camera, etc., and of main components of the motherboard such as integrated circuits and connectors.

2.2.13	MSDS BATTERIES	Battery Material Safety Data Sheet (MSDS).
2.2.14	CHARGER: ROHS CERTIFICATE	Certificate of compliance with the RoHS standard of the charger, in case it is not included in the RoHS certificate of the device. (It is NOT required to present the detailed documents with the test protocols applied).
2.2.15	CHARGER: EN60950 CERTIFICATE (or its updates IEC 62368-1)	Certificate of compliance with standard EN60950 (or IEC 62368-1), Information technology equipment - Safety, of the charger. (It is NOT required to present the detailed documents with the test protocols applied).
2.2.16	CHARGER: CERTIFIED IEC61000 (or its updates)	Certificate of compliance with the IEC 61000 standard (or its updates), Electromagnetic compatibility (EMC), of the charger. (It is NOT required to present the detailed documents with the test protocols applied).
2.2.17	CHARGER: EN55022 CERTIFICATE (or its updates)	Certificate of compliance with standard EN55022 (or its updates), Information technology equipment Radio disturbance characteristics, of the charger. (It is NOT required to present the detailed documents with the test protocols applied).
2.2.18	DEVICES SHEET	Device information sheet (see description in this section).
2.2.19	LOGISTICS SHEET	Logistics information sheet (see description in this section).

The information required in requirements 2.2.18, 2.2.19 is described below:

- 2.2.18. DEVICES SHEET
 - Pallet number / master box number in which the device is shipped.
 - MAC addresses of all network cards the device is equipped with.
 - Part number and serial number of major components (minimum: motherboard, display and battery).
 - Identifier obtainable by software using the method specified by the bidder.
 - IMEI (if applicable).
- 2.2.19 LOGISTICS SHEET
 - Individual box measures. (In case Ceibal awards the boxed packaging option. See section 9 of the solicitation for description of the alternative individual packaging option.)
 - Weight of individual box (see above).
 - Master box dimensions.
 - Weight of master box.
 - Number of devices per master box.
 - Number of master boxes per pallet.
 - Pallet height.

2.3. Samples

At the time of submission of offers, SIX identical samples of each model of tablet offered, with their chargers, and with Android operating system, must be submitted. It is not necessary to submit with the bid a sample of the cover, although it will be validated prior to production. These samples will be requested only for the awarded model. All tablet and charger samples must be properly identified according to the following guidelines:

LPI_Tablets_2026
3 letters to identify bidder
Model offered
Sample No.

As an example, sample 1 of model XYZ offered by bidder ABC, should be labeled:
LPI_Tablets_2026-ABC-XYZ-1.

Ceibal reserves the right not to accept samples that are not properly identified.

The bidder shall make available the software image of the sample, the tools and procedures necessary for its installation in a downloadable file that shall be available for download from the bid opening until the technical report is seen. This allows Ceibal to restore the devices to their initial state during the evaluation process as many times as necessary.

Samples must be delivered to the reception of Centro Ceibal (Av. Italia 6201 Edificio Los Ceibos, Monday to Friday from 9 am to 5 pm). Ceibal will issue a receipt of receipt that will be signed by Ceibal and by the person delivering the samples.

In exceptional cases and when there are justified reasons in Ceibal's judgment, the bidder may defer the delivery of samples for a reasonable period of time that Ceibal will evaluate.

A fundamental part of the technical evaluation will be performed on these samples (see section 8 TECHNICAL EVALUATION CRITERIA). The specifications and performance of the final product cannot be less than those of the sample. This aspect will be verified in the quality controls that determine the acceptance of the product.

Destructive tests will be performed on some of the samples delivered.

Unsuccessful bidders will have 4 weeks from the award date to withdraw the samples submitted. Upon expiration of the aforementioned term without having withdrawn them, Centro Ceibal may freely dispose of them, without the right to claim by the bidder.

The samples submitted by the awarded bidders will remain the property of Ceibal.

3. Warranty

The following warranty conditions are mandatory:

3.1 Dead on Arrival

Warranty for replacement of failed DOA devices for a period of 90 days from arrival: 10 tablets per 1000.

3.2 Systemic failures

Ceibal may request from the successful bidder the necessary spare parts or replacement of equipment in the event that a systemic failure attributable to the design or manufacture of the equipment is detected. The costs derived from the execution of this guarantee shall be borne exclusively by the supplier. This item includes systemic software failures, not attributable to Ceibal.

In the event that the bidder submits additional guarantees, it shall detail them in its technical proposal. If the additional warranty conditions proposed by the bidder involve additional costs, these shall be presented in the financial bid, quoted separately.

The bidder shall warrant that the products supplied under the contract are new, complete, unused, and free from defects attributable to design, materials, workmanship, storage conditions (proper packaging, temperature and humidity), shipment, or any act or omission of the bidder that may arise from the normal use of the products under the conditions prevailing in the country.

4. Delivery time period and conditions

4.1. Delivery time period

TWENTY samples of the awarded model shall be delivered by February 1, 2026 for use in repair training. These 20 samples are not part of the awarded lot and are at the supplier's cost.

It is desirable that the supplier comply with the following delivery schedule:

- **ETA of 50% of the awarded lot: 120 calendar days after the award resolution is communicated.**
- **ETA of the remaining 50% of the awarded lot: within 30 calendar days after delivery of the first 50%, or April 15, 2026, whichever is earlier.**

The specified lead times include the following milestones:

1. Software image development.
2. Certification of developed software image. The software image referred to in 1., to be installed in the factory, must be a Google certified image.
3. Definition of hardware specifications, in case the final product presents minor changes in components, internal design, etc., with respect to the samples submitted. It is a condition for the start of production that Ceibal validates the equivalence of the final product with the samples submitted.
4. Production
 - 4.1. Final product:
 - 4.1.1. Centro Ceibal will agree with the successful bidder the production schedule of the device. The successful bidder shall send Ceibal 10 golden samples of each production batch (see section 5. QUALITY CONTROLS).
 - 4.1.2. Quality control at source (see section 5. QUALITY CONTROLS).
 - 4.1.3. Verification of the availability of all requested product documentation.
 - 4.2. Spare parts:
 - 4.2.1. Centro Ceibal will agree with the successful bidder on the number of spare parts for each part to be supplied and how they are to be shipped.
5. Delivery of documentation requested in the section as mandatory with each shipment and/or change of hardware in section 2.2 DOCUMENTATION.
6. Shipment and quality control upon arrival in Uruguay (see section 5. QUALITY CONTROL).

In case of not being able to comply with the established delivery schedule (quantities and/or deadlines), the bidder shall specify the alternative schedule taking into account Ceibal's delivery commitment during the first quarter of the year 2026. The same delivery terms apply for both the final product (tablet + accessories) and spare parts.

4.2. Delivery conditions

All devices sent to Ceibal must be made up of the same components. In the event that this cannot be fulfilled, the successful bidder must notify Ceibal in writing within a period of no less than 60 days and Ceibal may validate the new BOM.

The successful tenderer must deliver the devices in compliance with the following specifications:

- Each pallet must be labeled with the following information:
 - **Device model / lot / batch (pallets containing more than one device model will not be accepted).**
 - **Pallet number / total pallets in the lot.**
 - **Number of master boxes on pallet.**
 - **List of the master boxes that make up the pallet.**
- Each master box must be labeled with the following information:
 - Device model / lot / batch
 - Number of master boxes / total of master boxes in the batch.
 - Serial number (barcode and alphanumeric) of each device in the master box.
 - Product description.
- The individual packaging individual should be labeled with the following information:
 - Device model.
 - Serial number (barcode and alphanumeric) of the device.

The design of each individual packaging and each master box must be customized according to specifications that will be agreed between Centro Ceibal and the successful bidder.

Centro Ceibal may request the inclusion of a printed brochure with recommendations for use and care of the equipment in each individual box.

5. Quality control

Centro Ceibal will carry out three quality controls on the awarded products that may partially or totally reject the inspected lots. These three inspections are:

1. Inspection at origin prior to shipment.
2. Validation of golden samples that the successful bidder will send to be evaluated at Centro Ceibal (10 devices from each batch produced, sent by air freight at the winner's expense).
3. Final inspection at Ceibal after receiving the shipment.

Centro Ceibal, or a representative designated by it, may visit the factory before and / or during batch production for Ceibal, after coordination between the parties and independent of the quality controls. Centro Ceibal may also request a visit to the manufacturer to work together during the software image development process.

6. Requirements

HARDWARE					
MANDATORY REQUIREMENTS			COMPLIES		OBSERVATIONS
			YES	NO	
6.1	PROCESSOR	Processor brand Mediatek minimum MT8786 .			
6.2	RAM MEMORY	DDR3 or higher. Minimum capacity according to Google's requirement for the Android version offered (see requirement 6.13 OPERATING SYSTEM).			
6.3	INTERNAL STORAGE	Minimum: 32GB			
6.4	SCREEN	Size 8 ". Minimum resolution: 1280x800p.			
6.5	TOUCHSCREEN	P+G technology, or other technology that is safe for the user (OGS type glass touchscreen is not acceptable).			
6.6	CONNECTIVITY	Minimum: 1x1 dual band network card: 802.11n (2.4 GHz) and 802.11ac (5GHz). WPA2 Personal/Enterprise security. Specify the interface for connecting the card to the motherboard.			
		Minimum Bluetooth 4.0			
6.7	MULTIMEDIA	Headphone output and external microphone input through the same connector. (TRRS 3.5mm).			
		Built-in microphone and speakers.			
		Front camera: minimum resolution 2MP.			
		Rear camera: minimum resolution 5MP.			
6.8	LOADING PORT	USB type C			
6.9	BATTERY ATTACHMENT AND REMOVAL	The battery must not be attached to any component of the equipment, except to a support designed for that purpose.			
6.10	NOT SOLDERED PERIPHERALS	Peripherals (screen, touchscreen, speakers, battery, antennas, etc.) NOT soldered to the motherboard. Peripherals must be connected to the motherboard using removable connectors.			
6.11	REINFORCED USB CONNECTOR	Reinforced metal body structure of USB connectors, e.g. by spot welding or by the constitutive design of the USB connector.			
6.12	HARDWARE TEST	Software or firmware tool that allows the verification of the device's integrated peripherals and ports. This tool must be available in Spanish and/or English language. For details of the characteristics sought see Section 8: Technical Evaluation Criteria.			

SOFTWARE					
MANDATORY REQUIREMENTS			COMPLIES		OBSERVATIONS
			YES	NO	
6.13	OPERATING SYSTEM	Minimum: Android version required for GMS certification. ANDROID GO IS NOT ACCEPTED. The device must have Zero Touch Enrollment technology for unattended enrollment in Ceibal MDM.			
6.14	LANGUAGE	Operating system and all its interfaces and configuration options in Spanish.			
6.15	CUSTOMIZATION AND INSTALLATION TOOLS	The bidder shall deliver the tools detailed in documentation requirements 2.2.2 and 2.2.3 for firmware and operating system customization and serial number acquisition.			
6.16	DISC IMAGE	The tablet will be delivered to the end user with a software image developed by the supplier based on the requirements provided by Ceibal. This software image shall include an interface specially designed for the target audience as the default operating environment, in addition to having the operating system's own launcher (for more image requirements see requirements 6.17 to 6.31). The software image shall be certified by Google.			
SOFTWARE IMAGE - ANDROID SETTINGS					
6.17	LANGUAGE AND KEYBOARD	Spanish - (Spain)			
6.18	DISPLAY SUSPENSION	5 minutes			
6.19	BROWSER	Default website: www.ceibal.edu.uy			
6.20	MANUAL CONDITIONING AT THE FACTORY	Disable screen unlock, set default launcher, enable unknown origins, disable GPS, disable google assistant, time zone			
SOFTWARE IMAGE - OTHER SETTINGS					
6.21	BOOT	Include a custom image and animations at boot.			
6.22	WALLPAPER	Set wallpaper provided by Ceibal			
6.23	REBOOT	Add restart option when pressing power button.			
6.24	GOOGLE APPS	Include Google apps that are mandatory in Uruguay.			
6.25	USB PORT	Create a soft link to the USB port under the name /sdcard/usbcard/ or rename it accordingly.			
SOFTWARE IMAGE - CONTENTS TO INCLUDE					
6.26	LIBRARIES	Include libraries in / system / lib			
6.27	NO APP CONTENT	Create CEIBAL folder in / sdcard and include content in it			
6.28	INITIALIZATION FILES	Copy folder with device initialization content to / sdcard folder that is preserved in case of factory reset of device			
SOFTWARE PICTURE - APPLICATIONS INSTALLED					
6.29	APPS	Install applications that Centro Ceibal will specify			

SOFTWARE IMAGE - OTHER REQUIREMENTS					
6.30	SYSTEM PRIVILEGES	Ceibal must be able to sign applications so that they have system privileges. This can be done by the bidder whenever Ceibal requests it, but it will be valued if Ceibal can do it. For this, indicate if the delivery of the System Platform Key is possible.			
6.31	DEVELOPMENT	Specify the request response time and iteration time for each software image development cycle. For the purpose of sizing development cycles, considering tasks such as the following: * Installation of Ceibal applications as system applications, * Configure applications to be launched once the device starts.			

LOGISTICS					
MANDATORY REQUIREMENTS			COMPLIES		OBSERVATIONS
			YES	NO	
6.32	CEIBAL LOGO, FANTASY NAME AND GRAPHIC REPRESENTATION OF THE MODEL	<p>Ceibal will specify the Ceibal logo, fantasy name and graphic representation of the model, which must be printed on the casing using laser, silkscreen or another printing method. For reference, see Gacrux and Bellatrix model designs at the following link: https://www.ceibal.edu.uy/es/dispositivos/tablets)</p> <p>Labels will NOT be accepted. This print must meet the following durability criteria:</p> <ul style="list-style-type: none"> - Clearly visible on housing. - Indelible before the application of alcohol. - Not removable when gluing and peeling packing tapes. 			
6.33	SERIAL NUMBER and BARCODE	Unique serial number (SN) and corresponding bar code printed on housing by laser, silkscreen or other printing method. The same considerations apply as for requirement 6.32 CEIBAL LOGO, FANTASY NAME AND GRAPHIC REPRESENTATION OF THE MODEL. The bar code must present sufficient contrast to be read by bar code readers. Labels will NOT be accepted.			
		The serial number must be obtainable by software following the Android standard and must be accessible via ADB commands.			
		The software serial number must be configurable by a tool and procedure to be specified by the bidder. This requirement is necessary so that the serial number printed on the housing and the software serial number will match on a machine after a repair where the motherboard was replaced (See requirement 2.2.3 SERIAL NUMBER CONFIGURATION).			

6.34	PARTS IDENTIFICATION	<p>The following components, whether parts included in the equipment or individual spare parts, must be provided with:</p> <ul style="list-style-type: none"> - barcode or QR code that allows scanning of part number and serial number - label, laser engraving, silkscreen or similar with the part number and serial number information. - Battery - Motherboard - Display - Touchscreen 			
6.35	ECO FRIENDLY PACKING	The packaging design must be eco-friendly, using biodegradable cardboard and nylon.			
OPTIONAL REQUIREMENTS					
6.36	RFID label	RFID label inside Cover D			
6.37	Alternative Packaging	Without individual box, with solution described in section 9. The packaging design must be eco-friendly.			

		CHARGERS	YES	NO	
6.38	HOUSING	Material: ABS plastic or similar with good impact resistance.			
		The charger can only be opened by a destructive process. It must be sealed and must not have screws that allow it to be opened by the user.			
6.39	220VAC PLUG	Europlug CEE 7/16 220VAC 2.5A 2 legs. See image 1.			
		Insulation on 220VAC plug contacts. See image 1.			
6.40	PINS REMOVAL FORCE	The pins may only be removed from the loader body if a force greater than 40kgf is exerted.			
		Force on housing surfaces: The external housing must withstand a force of 25Kg on a 30mm circular surface for 5 sec without causing damage.			
6.41	DC CABLE	The cable must be removable from the charger via USB type A connector. Length 150cm +/- 30cm . See image 2.			
		Reinforced: Internal cables encapsulated in plastic sheathing. See image 3.			
		Strain Relief: Presence of strain relief at both ends of the cable (charger input and DC connector). See image 4.			
6.42	ELECTRICAL CHARACTERISTICS	Input: 100 - 240 VAC			
		A tolerance of 5% should be maintained for the specified nominal conditions.			
6.43	DC CONNECTOR	The connector shall ensure correct and firm coupling with the equipment.			
6.44	CEIBAL LOGO	Ceibal shall specify logo and model name. In addition to this information, the production lot and electrical specifications of the charger shall be printed on the casing by laser, silkscreen or other printing method, labels shall NOT be accepted. The same considerations apply as for the requirement 6.32 CEIBAL LOGO AND FANTASY MODEL NAME.			

Image 1: Requirements 6.39. 220VAC PLUG:



Image 2: Requirements 6.41 DC CABLE(extreme to the charger):



Image 3: Requirements 6.41 CABLE DC (exterior cover):

Reinforced cable (meets mandatory requirement)	Non-reinforced cable (does NOT meet the mandatory requirement)
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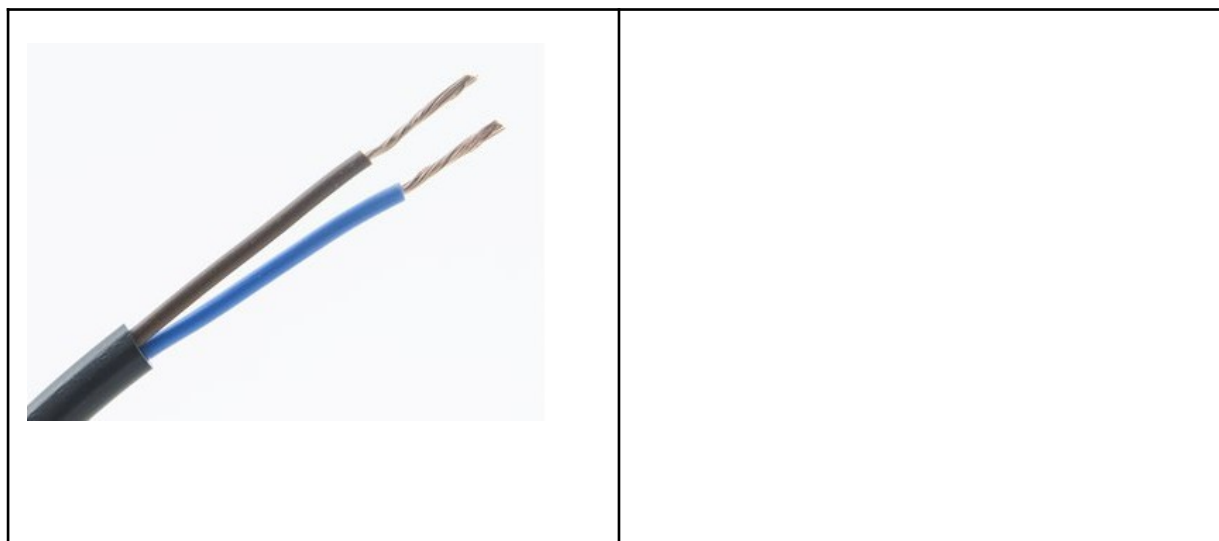
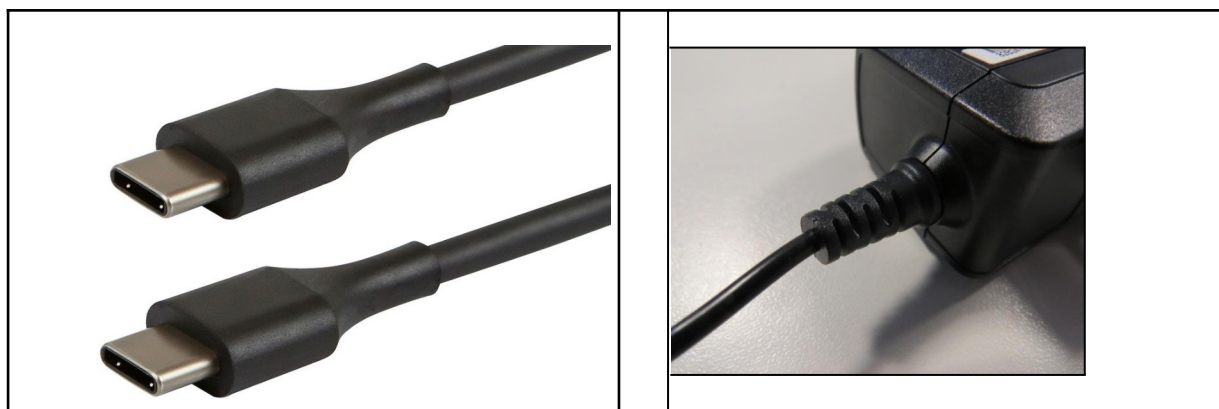


Image 4: Requirements 6.41 CABLE DC (strain relief)



Chargers are ordered in individual boxes and will be requested to have a particular artwork in one ink. Reference image:



TABLET CERTIFICATIONS					
MANDATORY REQUIREMENTS			COMPLIES		OBSERVATIONS
			YES	NO	
6.45	Restriction of Hazardous Substances	Documentation supporting the RoHS certification of the device or all of its components will be required as a requirement for acceptance of production batches.			
6.46	Federal Communications Commission Declaration of Conformity	Documentation supporting FCC certification will be required as a requirement for acceptance of production batches			
6.47	Energy Star (or equivalent)	Documentation of Energy Star (or equivalent) compliance will be required.			
6.48	Information technology equipment - Safety	Documentation proving compliance with the EN60950 standard (or its updates) will be required as a requirement for acceptance of production batches			
6.49	Electromagnetic compatibility (EMC)	Documentation proving compliance with the IEC61000 standard (or its updates) will be required as a requirement for acceptance of production batches			
6.50	Information technology equipment. Radio disturbance characteristics.	Documentation proving compliance with the EN55022 standard (or its updates) will be required as a requirement for acceptance of production batches			

CHARGER CERTIFICATIONS					
MANDATORY REQUIREMENTS			COMPLIES		OBSERVATIONS
			YES	NO	
6.51	Restriction of Hazardous Substances	Documentation proving the RoHS certification of the charger will be required, in case the charger is not included in the RoHS certification of the device, as a requirement for acceptance of production batches.			
6.52	Information technology equipment - Safety	Documentation proving compliance with the EN60950 standard (or its updates) will be required as a requirement for acceptance of production batches			
6.53	Electromagnetic compatibility (EMC)	Documentation proving compliance with the IEC61000 standard (or its updates) will be required as a requirement for acceptance of production batches			
6.54	Information technology equipment. Radio disturbance characteristics.	Documentation proving compliance with the EN55022 standard (or its updates) will be required as a requirement for acceptance of production batches			
6.55	Energy Star (or equivalent).	Documentation of Energy Star (or equivalent) compliance will be required. (Applies in the case 6.48 is not covered.)			

COVER							
MANDATORY REQUIREMENTS					COMPLIES		OBSERVATIONS
					YES	NO	
PROTECTION							
6.56	COVER	The product must include a cover according to the specifications of section 7: Cover.					

SPARE PARTS		
AVAILABILITY	COMPLIES	
	YES	NO
Minimum: 1 year		
Spare Part	Estimated percentage of factory failures	Observations (*)
Barebone Device (**)		
Touchscreen		
Screen		
Battery		
Motherboard		
Charger		
...		
...		
...		

(*) Specify if the original spare part includes other parts of the device. For example, touchscreen with/without frame, motherboard with/without integrated peripherals, etc.

(**) A Barebone device is a device assembled only with the following components: screens, touchscreen, battery, charger, motherboard and wifi antenna.

7. Cover

Material

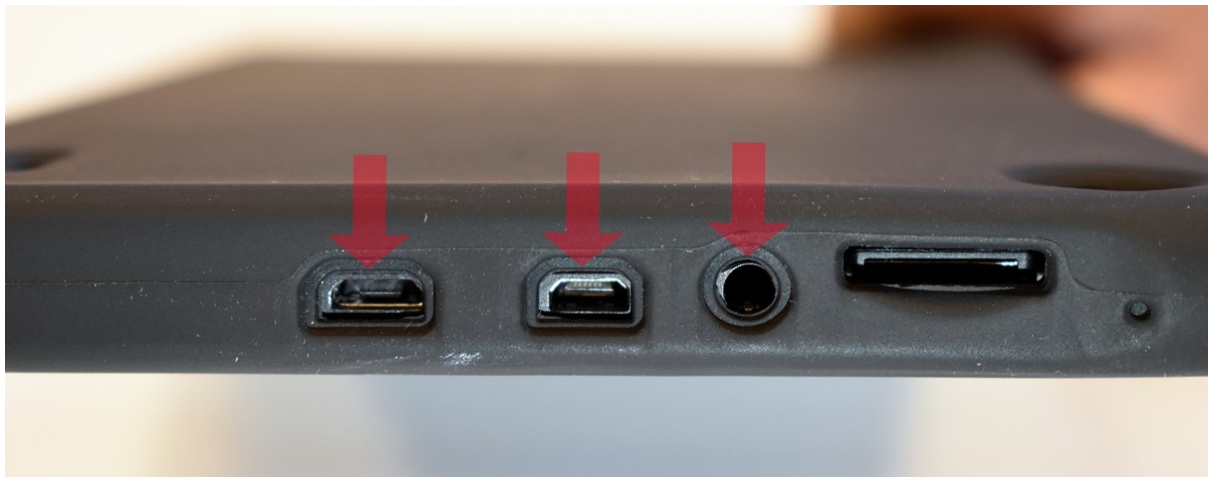
Silicone.

Color

Black.

Connector hole

The cut-out of the holes for the side connectors of the tablet (micro USB, audio, HDMI, etc.) must be adequate to ensure that all external accessories and cables can be reliably connected.



Connector legends

In addition to the logo on the back, the indication legends corresponding to frequently used connectors (at least the USB charging connector) and buttons must be incorporated.





Logo and fantasy name of the model

The cover must incorporate the Ceibal logo on its back along with the identification of the device model. Ceibal will define this identification, which can be the model name specified by the supplier, a fantasy name selected by Ceibal, or both. Below is an example of a cover of a model currently in the Ceibal tablet park.



Edges

1- Contact surface clearance

The edges of the front frame are thickened to achieve greater clearance of the screen-touchscreen assembly from a contact plane in the event of horizontal impacts or falls.



2- Touchscreen retention

The inner edges of the cover should advance as far as possible on the touchscreen / screen. In this way, the cover would be tighter, preventing part of the touchscreen or screen from lifting, or fragments of the same from detaching in cases of breakage.



Corners

The cover must present thickened corners, in order to have greater resistance to shocks in these sectors of the device that are the most frequent.



Texturization of the back side

The back of the cover should incorporate a texturing that makes it difficult to slide the device.



8. Technical evaluation criteria

The evaluation of the technical offer includes the following device evaluation criteria:

- Background evaluation.
- Evaluation of compliance with mandatory requirements.
- Evaluation of samples:
 - Performance, WiFi and multimedia evaluation
 - Maintenance evaluation

All offers scoring less than 60/100 technical points will be eliminated.

8.1. Background evaluation

The evaluation of the technical offer includes the following device evaluation criteria:

- Background evaluation. It will be evaluated:
 - The Factory background
 - The Background of the bidder
- Factory visit. Centro Ceibal may request a visit to the factory that the bidder specifies in his offer. The objective of this visit is to check the capacity of the factory to meet the production volume in terms of quality and deadlines. When presenting itself, the bidder guarantees that the factory will allow access to Ceibal, or to a representative designated by it, so that the corresponding evaluation can be carried out, if Ceibal requests it. For this evaluation, the following will be needed:
 - Free access to the company's manufacturing facilities and offices.
 - Free access to take photographic and videographic records of the facilities, both inside and outside the factory buildings.
 - Free access to documentation linked to current quality and management certificates.
 - Free access to documentation related to legal records of the company.

8.2. Compliance with mandatory requirements

Any offer that does not meet any of the mandatory requirements requested in the corresponding category of section 6. REQUIREMENTS will be discarded.

8.3. Sample evaluation

8.3.1. Performance, Wifi and multimedia

Hardware performance and the overall user experience of the device will be evaluated. The aspects evaluated are: camera, screen, audio, video, Wi-Fi, device response in user interaction, device autonomy in battery operation, disk read/write, CPU performance, among others.

8.3.2. Maintenance

The maintenance evaluation analyzes the suitability of the device for the user and the characteristics of the support service provided by Ceibal, and the quality of the documentation associated with maintenance requested in section 2.2 DOCUMENTATION

As general characteristics, a robust and easy-to-repair device is sought, both in terms of the time it takes to repair and its technical complexity.

Among the aspects to be evaluated, the following stand out:

Hardware Test

The suitability of the submitted software or firmware tool to Ceibal's operating procedures will be evaluated (see mandatory requirement 6.12 Hardware test). The following is a description, as a reference, of the desired characteristics of the tool:

- Features:
 - Sequential mode where all the tests are executed.
 - Manual mode where it is allowed to run a specific test.
 - At the end of each test, it allows the technician to decide if the result is acceptable or not.
 - Allows you to skip Test or go back to the previous one manually.
 - Has a LOG with the results of all the tests.
- Tests:
 - Keyboard Test: Allows verification of the following keys:
Volume +
Volume -
Power.
Bluetooth test: Activate Bluetooth and recognize nearby devices.
 - WiFi test: Activate WiFi, recognize nearby access points and connect.
 - Display Test: Shows color sequence in full screen.
 - Audio Test: Allows verification of the following components:
 - Speakers
 - Earphones
 - Microphone.
 - Test de Backlight: Muestra variación en el brillo de la pantalla.

- Backlight Test: Shows variation in screen brightness.
- Touchscreen Test: Displays a matrix to review by touch.
- Camera Test: Activates the cameras and allows you to take and save a photo.
- Battery Test: Displays the Battery information
 - Tension
 - Charge level
 - Current capacity and design capacity
- Storage test
 - Check microSD card
 - Check storage read by OTG adapter
- Device Information:
 - Name of the device
 - Firmware version
 - Serial number
- SIM test (in 3G / LTE models): Allows detection and validation of the SIM
- Flash Test (if applicable to the model): Allows the LED used as the camera flash to turn on

Fragile module assembly

Easy to disassemble fragile modules, for example screen, internal battery, antennas, etc., in order to minimize the risk of breakage. It is desirable that the assembly of these modules is not done with adhesive materials.

Disassembly and assembly complexity

Design that allows a simple assembly and disassembly process, with minimal risks on the components that are removed and replaced. For example, the following considerations contribute to the ease of the process:

- Presence of guides for the conduction of internal cables that avoid the use of adhesive tapes.
- Low diversity of screws and easily identifiable, for example, by color coding and / or printing the screw size on PCB.
- Modularity: design that allows removal and replacement of modules without the need to remove other modules.

Screw anchors

Robust screw anchors to withstand wear and tear from multiple removals.

Safety

Design that prioritizes user safety. For example, safety mechanisms due to excess battery temperature.

Length of internal cables

Appropriate length of internal cables in order to avoid unnecessary tension in the connection to the motherboard or excessive dispersion of the cables inside the equipment.

External connectors

The external connectors are accessible by the user so it is important that they are robust to withstand external pressure. Some aspects to consider are:

- Connectors fully contained inside the device to avoid greater pressure than necessary, or even reinforced by the plastic of the housing itself.
- Assembly of the connectors on independent boards that are connected to the motherboard, so that when the connector breaks, it is not necessary to remove and replace the entire motherboard.
- Small SMD connectors such as micro USB, audio connectors, micro HDMI, etc, with four anchor points to the motherboard.
- Connectors assembled in a board-cut configuration that make contact with the motherboard at the rear of the connector, providing an additional point of support for the connector.
- Reversible connectors, such as micro USB type C (see optional requirements in Annex I. Requirements)

External buttons

External buttons are prone to breakage, so it is desirable that they are not assembled on the motherboard but on a separate module.

On the other hand, external plastic parts, such as the power and volume buttons, are desirable to remain assembled on the device's plastic casing so that they are not lost during repairs.

Internal assembly

To avoid breakage during tablet repair processes, it is desirable to:

- **Speakers not assembled on removable parts of the case. This avoids cable strains when opening the devices.**
- **Motherboard components separated from the device opening points, so that when using tools to open the computer there is no risk of component breakage.**
- **PCB shield not soldered to the board so it can be removed during repairs.**

Cards

Some tablets have removable plastic parts in the case to hide cards (SIM, microSD, etc.) prone to breakage or loss, which has a direct impact on the operation of the equipment. It is desirable that the device does not include these types of parts.

Spare parts compatibility

The compatibility of spare parts of the models offered with existing models in the Ceibal equipment park will be evaluated.

9. Individual Packaging - Alternative

Ceibal may opt for an individual box or an alternative similar to the one indicated in this section. The bidder shall indicate in the offer if the equipment can be supplied under this modality.

The devices must be packaged in bulk format, maximizing the number of devices per box (secondary packaging) in order to reduce maritime and land logistics costs. The minimum per box of tablets should be 15 units, with a maximum weight of 25kg per bulk box. It is desirable to maximize the number of devices per box without exceeding the maximum weight per box.

Each device and charger should come with primary packaging inside the box.

General characteristics of the primary packaging:

- Its function is that the user can use it to transport device and charger safely and comfortably, so it is valued that it has handles for easy transport.
- The primary packaging should be of a size and material that allows it to be stored together with the tablet and charger in the user's backpack.
- The primary packing shall be used for the life of the device.
- The charger should have a specific place in the primary packaging, such as an internal pocket.
- It is desirable that the material is sustainable, i.e. biodegradable or recycled fabric and natural dye. For example: organic cotton, hemp, linen, wool felt or RPET.
- On the outside it must have an area or card where a label with the serial number and its bar code is included, additionally it must include a space to attach another label with the user's data. The area or card where the label is attached must be accessible so that it can be attached without having to remove the device from the secondary packaging. In order to reduce the operating time (see image 2).
- It will have a design provided by Ceibal in two inks (see examples in image 1).

The examples shared are references; each supplier may submit alternative designs that will be evaluated.

Image 1:

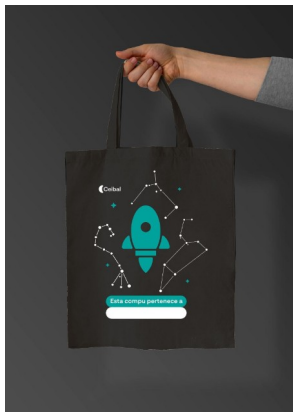


Image 2



5,5 cm x 8 cm

10. Annex I: Price Tables

TABLET WITH COVER + CERTIFIED SOFTWARE IMAGE. SEA SHIPMENT (US\$ CIF MVD) INCOTERM 2010 - MANDATORY QUOTE				
PRODUCT: TABLET WITH COVER + CERTIFIED SOFTWARE IMAGE	MODEL	VOLUME	UNIT PRICE	OBSERVATIONS
		Up to 10.000		
		between 10.001 and 40.000		
		between 40.001 and 70.000		
		More than 70.000		
MANUAL SETTINGS - MANDATORY QUOTE				
MANUAL FACTORY SETTINGS		Up to 10.000		
		between 10.001 and 40.000		
		between 40.001 and 70.000		
		More than 70.000		

TABLET WITH COVER + CERTIFIED SOFTWARE IMAGE. ALTERNATIVE INDIVIDUAL PACKAGING. SEA SHIPPING (US\$ CIF MVD) INCOTERM 2010 - OPTIONAL QUOTE				
PRODUCT: TABLET WITH COVER + CERTIFIED SOFTWARE IMAGE	MODEL	VOLUME	UNIT PRICE	OBSERVATIONS
		Up to 10.000		
		between 10.001 and 40.000		
		between 40.001 and 70.000		
		More than 70.000		
MANUAL SETTINGS - MANDATORY QUOTE				
MANUAL FACTORY SETTINGS		Up to 10.000		
		between 10.001 and 40.000		
		between 40.001 and 70.000		
		More than 70.000		

DEVELOPMENT AND CERTIFICATION OF MAINTENANCE SOFTWARE IMAGE (MANDATORY QUOTE)	
PRICE US\$	

RFID READER - IF OPTIONAL REQUIREMENT 6.36 IS MET. OPTIONAL QUOTE.	
RFID (US\$) READER	

SPARE PARTS (MANDATORY QUOTATION)	
SPARE PART	UNIT PRICE, US \$ FOB MVD
Barebone device (**)	
Touchscreen	
Screen	
Battery	
Motherboard	
Charger	
...	
...	

11. Annex II: Factory Data

The offer must include the following information (see Section 2.1):

FACTORY DATA										
Model (name as shown in the offer)	Name in English	Name in Mandarin Chinese	Address in English	Address in Mandarin Chinese	Factory name of the model offered, in English	Factory name of the offered model, in Mandarin Chinese	landline telephon e	Contact Person Name	Contact person's email	Cell phone number of contact person

12. Annex III: Confidentiality and data protection

The Company that is awarded the contract expressly agrees to maintain the strictest confidentiality of all information it processes or uses during its relationship with Centro Ceibal. Confidential Information includes, but is not limited to, the following information: all commercial strategies, plans and procedures, proprietary information, software, tools, processes, images, personal data, methodology, information and trade secrets, and other information and materials pertaining to Ceibal, as well as its students, beneficiaries, teachers, and educational centers, which may be obtained by the Company from any source or developed as a result of this contract.

If the Bidder accesses personal data, they must state in their offer where the data is stored, as well as their privacy and data security policy. In this case, they are required to process the personal data to which they have access in accordance with Law No. 18,331 of August 11, 2008, and Decree No. 414/2009 of August 31, 2009, solely for the provision and within the framework of the contracted service. They may not use the data for any other purpose, nor for their own benefit, whether free of charge or for a fee, nor may they assign, communicate, or transfer it to third parties, except with prior authorization from Centro Ceibal.

Under no circumstances may access to personal data be construed as a transfer or permission for its free use by the selected bidders.

They are also obligated to adopt the necessary security measures to guarantee the security and confidentiality of personal data and prevent its alteration, loss, unauthorized access, or processing, as well as to detect information breaches.

If personal data is stored, even temporarily, outside the country, national regulations must be complied with. These regulations require international data transfers to member countries of the European Union and the European Economic Area, or to countries with a declaration of compliance with European data protection standards by the European Commission, or to organizations included in the "Data Privacy Framework" published by the United States Department of Commerce. In the case of international transfers to non-compliant territories or organizations, the following are required: a) to have the data subject's consent; b) to have signed Standard Contractual Clauses with the exporter; or c) to have a registered Code of Conduct, with the corresponding authorization for the international data transfer processed before the Personal Data Regulatory and Control Unit, in the latter two cases.

Upon termination of the contract, or at any time upon request by Ceibal and/or the data subject, they agree to return or delete from all their physical and logical systems and files, whether their own or contracted to third parties, the personal data accessed, obtained, or processed under this contract, as well as the associated metadata, if applicable.

Personal data is considered to be any type of information relating to specific or determinable natural or legal persons, including, but not limited to, any numerical, alphabetical, graphic, photographic, acoustic or any other type of information that refers to them directly or indirectly, in accordance with the provisions of Article 4 of Law No. 18,331 and Articles 1 and 4 of Decree No. 414/009.