

# Technical Specifications

## LPI 1293-2018

### Servers

**Technical Management**

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## 1. CALL AIM

Within the framework of the plan of deployment and support of connectivity solutions in educational centers and local interest for the period 2018-2019 it is generated the need to acquire **tower servers**.

Section 2 describes the mandatory and desirable technical requirements that apply to the aforementioned product. Section 3 describes the general conditions for the submission of offers and indicates how the bidder must proceed to present his offer. Section 4 establishes the guarantee conditions. Section 5 explains the offers technical evaluation. The format to be used to present the offer is included in Annexes I and II and finally in Annex III it is described the protocol to be applied for the testing of samples.

## 2. TECHNICAL SPECIFICATIONS

In all cases, the product offered must comply with all the mandatory specifications. It will be assessed that the product offered also meets the greatest possible number of desirable specifications.

In case the product offered does not comply with one or more mandatory specifications, the offer of the product will be discarded.

### A – Tower Server

Mandatory Specifications	
# Spec.	Description
A.1	Processor: Intel Xeon of the E3 series, 4 cores, 5th generation or higher generation
A.2	RAM memory: 8GB DDR4 or higher
A.3	SSD drive: 128GB minimum storage
A.4	Four or more USB connectors, at least one 3.0
A.5	Video output: VGA or HDMI
A.6	Minimum three network interfaces 10/100/1000 Mbps
A.7	Connector IEC 60320 C14

A.8	Power cable: IEC 60320 C13 - CEE 7/7 (Schuko) (with minimum section 3 x 0.75 mm <sup>2</sup> )
A.9	Possibility of configuring Auto Power On, for the server to turn on automatically when power returns
A.10	Tolerance range of the input voltage (to the mains) greater than or equal to 200-240V
A.11	Equipment and components compatible with Linux: distributions CentOS 6.10 and Centos 7.0.
A.12	Read, all hardware devices must be detected and work correctly in these distributions
A.13	The serial number of the server must be able to be consulted from the Operating System (described in the previous point)
A.14	Tower server: maximum chassis size (Width x Depth x Height): 23 x 54 x 47 cm
A.15	IPMI 2.0 support with KVM over IP
A.16	Operating temperature range:
A.17	Minimum value: less than or equal to 10 ° C

<b>Desirable Specifications</b>	
<b># Spec.</b>	<b>Description</b>
D.1	Video output: VGA
D.2	All USB 3.0 connectors
D.3	220V 50Hz power supply with 80 Plus Silver efficiency certification or higher
D.4	Support WoL (Wake on LAN)

D.5	MTBF specification (Mean time between failures)
D.6	Equipment testing documentation
D.7	Documentation of origin that certifies: brand, model and origin
D.8	Storage unit with SATA interface (not mSATA)

### 3. PRESENTATION OF OFFERS

#### 3.1 Technical Documentation

Along with the offer it should be included the data sheets with the technical specifications of the product offered. The data sheets must be provided by the manufacturer of the product and match the product offered.

#### 3.2 Format

The offer must be presented completing the tables included in Annexes I and II.

The bidder will complete all the fields under the title TO BE COMPLETED BY THE BIDDER of the Specifications Compliance Table and the Quotation Table.

In case the bidder wants to offer more than one option for the same product, he must add the necessary rows in the Tables mentioned above, respecting the proposed format.

During the stage of technical analysis of the offers, Plan Ceibal may request from the bidder any additional information it deems necessary in order to verify that the product complies with all the technical specifications.

#### 3.3 Product Sample

Together with the offer, a sample of each product offered must be presented.

If the bidder does not have the possibility to deliver the sample together with the offer, it will be considered valid to present a proof of shipment with the corresponding Tracking Number, counting for the reception of the sample with a maximum term of 10 calendar days from the opening date of the Price Tender. Upon expiration of this term, Ceibal reserves the right to discard the offer.

Samples may be returned in different conditions for which they were delivered (e.g. change of original configuration, packaging of open components, etc.).

The bidder will have 4 weeks from the date of award to withdraw the submitted samples. In case of not withdrawing the samples in the previous term, Centro Ceibal may freely dispose of them, without the right to claim by the bidder.

Centro Ceibal will be able to make the pertinent technical consultations related to the evaluation of the product to the bidder. This advice will not represent any additional cost for Centro Ceibal.

**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.**

### 3.4 Delivery Period

The bidder must specify the delivery period of the products from the date of notice of award. A term of up to 45 calendar days from that date is desirable. Partial deliveries of the product may be accepted, as long as delivery schedules are specified, and in the exclusive judgment of Centro Ceibal

## 4. GUARANTEE

### 4.1 General Terms

The bidder guarantees that in case of adjudication the products to be supplied will be new, complete, without use and of the model offered. That they will be free from defects attributable to design, materials, manufacture, storage conditions (packaging, appropriate temperature and humidity), transfer or any act or omission of the bidder or manufacturer that may be manifested on the occasion of the normal use of the goods in the prevailing conditions in the country. The bidder must specify the guarantee period, which must be at least 12 (twelve) months from the date on which the products were received by Centro Ceibal. The guarantee must include all the components of the products offered. Other conditions and limits of the guarantee must be clearly specified. In case the bidder does not specify the guarantee term, it will be assumed that it is 12 (twelve) months. Within the framework of the guarantee, the maximum period of replacement or repair of defective products will be 15 calendar days from the date of the claim.

## 5. TECHNICAL EVALUATION CRITERIA

The technical evaluation of offers will be made according to the following stages:

- 1) It is verified that the information and the sample presented is complete, consistent with the quoted product.
- 2) It is verified if the offered product complies with the Mandatory Specifications.
- 3) The sample of the product is tested according to the protocol described in Annex III.

Failure to verify one or more conditions mentioned in stages 1 and 2 enables Centro Ceibal not to include the offer in the next evaluation stage.

**ANNEX I – Specifications Compliance Table.**

SPECIFICATIONS COMPLIANCE TABLE  Product: A – Tower server		TO BE COMPLETED BY THE BIDDER	
		(in each specification mark with a cross (X) the corresponding option)	
Mandatory Specifications		COMPLIES	
# Spec.	Description	YES	NO
A.1	Processor: Intel Xeon of the E3 series, 4 cores, 5th generation or higher generation		
A.2	RAM memory: 8GB DDR4 or higher		
A.3	SSD drive: 128GB minimum storage		
A.4	Four or more USB connectors, at least one 3.0		
A.5	Video output: VGA or HDMI		
A.6	Minimum three network interfaces 10/100/1000 Mbps		
A.7	Connector IEC 60320 C14		
A.8	Power cable: IEC 60320 C13 - CEE 7/7 (Schuko) (with minimum section 3 x 0.75 mm <sup>2</sup> )		
A.9	Possibility of configuring Auto Power On, for the server to turn on automatically when power returns		
A.10	Tolerance range of the input voltage (to the mains) greater than or equal to 200-240V		
A.11	Equipment and components compatible with Linux: distributions CentOS 6.10 and Centos 7.0.		

A.12	Read, all hardware devices must be detected and work correctly in these distributions		
A.13	The serial number of the server must be able to be consulted from the Operating System (described in the previous point)		
A.14	Tower server: maximum chassis size (Width x Depth x Height): 23 x 54 x 47 cm		
A.15	IPMI 2.0 support with KVM over IP		
A.16	Operating temperature range:		
A.17	Minimum value: less than or equal to 10 ° C		
<b>Desirable Specifications</b>		<b>COMPLIES</b>	
<b># Spec.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>
D.1	Video output: VGA		
D.2	All USB 3.0 connectors		
D.3	220V 50Hz power supply with 80 Plus Silver efficiency certification or higher		
D.4	Support WoL (Wake on LAN)		
D.5	MTBF specification (Mean time between failures)		
D.6	Equipment testing documentation		
D.7	Documentation of origin that certifies: brand, model and origin		
D.8	Storage unit with SATA interface		



**ANNEX II – Quotation Table**

QUOTATION TABLE		TO BE COMPLETED BY THE BIDDER											
		Quoted Product		Unit price according to quantity to acquire					Mark with a cross (X) the corresponding option				
Delivery	Description	Brand	Model	1 to 199	200 to 299	300 to 399	400 to 499	500 or more	CIF	Place	UYU	USD	Without taxes
Air freight	Tower server												
Sea freight	Tower server												

## **ANNEX III – Protocol for testing samples**

### **Installation of Ceibal Image**

The Ceibal Image based on Centos 6.10 is installed and the following is verified:

- Correct hardware detection
- Correct operation of the Operating System