



**Schola europaea**  
**Ecole Européenne de Bruxelles II**  
**WOLUWE**

**OPEN TENDER N° EEB2 2021-66**

**CONNECTED ELECTRONIC SCHOOL LOCKERS**

**TENDER SPECIFICATIONS**

**PART.2 TECHNICAL SPECIFICATIONS**

## TABLE OF CONTENTS

1.	BACKGROUND & OBJECTIVES .....	3
	1.1. Background.....	3
	1.2. Objectives.....	3
2.	DETAILED CHARACTERISTICS OF THE PURCHASE .....	4
	2.1. Minimum requirements.....	4
	2.2. Technical characteristics.....	4
	2.3. Web-based system.....	7
	2.4. Specific locker’s characteristics.....	7
	2.5. “All-in” maintenance & software update.....	8
	2.6. Leasing.....	8
3.	DELIVERABLES.....	9
	3.1. Web-based electronic lockers – Students lockers.....	9
	3.2. Web-based electronic lockers – Lockers with power supply .....	9
	3.3. 7-years Leasing.....	9
	3.4. Web-based licence & annual maintenance contract .....	10

# 1. BACKGROUND & OBJECTIVES

## 1.1. Background

The *contracting authority*, located in the municipality of Woluwe-Saint-Lambert, currently hosts more than 3000 students and offers three cycles of study (nursery, primary and secondary) as well as nine linguistic sections.

From September 2021, the *contracting authority* opened a new site in the municipality of Evere, which is accommodating for this first school year around 325 students and offers two cycles of study (kindergarten and primary) as well as five language sections.

Currently, the *contracting authority* has in place for all of its students of the secondary cycle school lockers with keys with the inconvenient point that keys are often lost.

Starting from the school year 2021-2022, and within the framework of the “Bring Your Own Device” project, all S4, S5 and S7 students must have their own laptop or tablet computer and bring it to school every day where it will be used for educational purposes. S1 to S3 students also will have a personal computer, which would be extremely useful in case online lessons will have to be put in place.

## 1.2. Objectives

The *contracting authority* wishes to conclude a framework contract for the leasing, provision, and maintenance of new connected and electronic lockers for its Woluwe-Saint-Lambert’s site for the students of secondary cycle, in particular starting S3 up to S7 grade, which represents a community of 2200 students.

The objectives are to consent students to:

- have access to their lockers on a web-based system with their badge (electronic opening and locking system)
- allow them to load their own laptop in separated cupboards through a single-phase plug

## 2. DETAILED CHARACTERISTICS OF THE PURCHASE

### 2.1. Minimum requirements

The quantities listed below are provisional and do not commit the administration. Higher or lower or zero quantities may not give rise to compensation.

Tenderers are committed to the provision and the quality of the items listed below.

Any tender which will not meet all these minimum requirements will be considered irregular and will not be taken into consideration in the evaluation process.

**Proposed supplies must meet the MINIMUM requirements listed in the following points.**

### 2.2. Technical characteristics

#### a. WEB-BASED LOCKERS FOR STUDENTS

##### **CUPBOARD:**

CHARACTERISTICS:	Quality rolled steel
Thickness of sheet metal:	Body 0,85 mm Doors 2,00 mm

FINISHING:	Epoxy paint in RAL colour (1 colour)
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CUPBOARD DESCRIPTION:	2 columns of 5 lockers <ul style="list-style-type: none"><li>▪ Slated coping</li><li>▪ 150 mm skirting board</li></ul>
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WIDTH:	+/- 700 mm
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FRONT HEIGHT:	1950 mm
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REAR HEIGHT:	2200 mm
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TOTAL QUANTITY:	<b>220</b>
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##### **LOCKERS:**

CHARACTERISTICS	Anti-vandal (thick walls) Web-based Opening with badges type MIFARE DESFIRE EV1 8K
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DOOR FINISHING:	Epoxy paint in RAL colour (choice of 4 colours)
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DOOR DESCRIPTION:	Doors and trolley built into the cupboard body 3mm cam lock Pop to open system
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WIDTH:	+/- 350 mm
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DEPTH:	+/- 500 mm
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TOTAL QUANTITY:	<b>2200 (of which 22 occupied by a driver)</b>
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##### **DRIVE:**

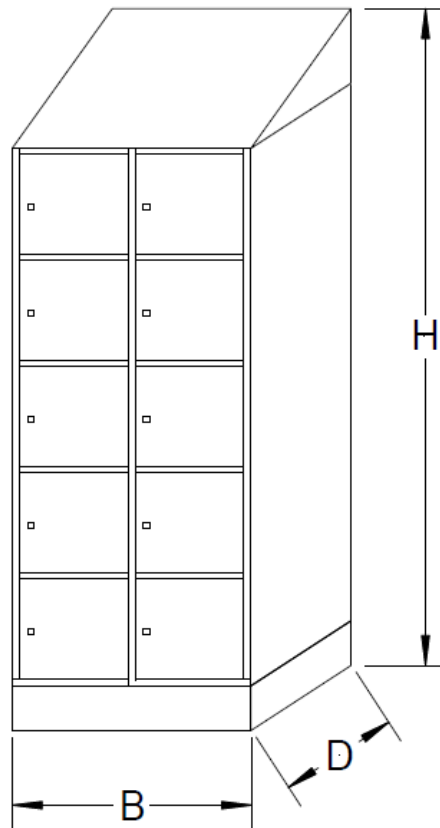
TYPE:	Web-based system (permanent or variable)
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TOTAL QUANTITY: 22 mounted in locker

**FIRST AID:** Emergency generator and tool box and spare parts

The *contracting authority* will provide the following:

- 230V power outlets near the drive
- Ethernet connections



**b. WEB-BASED LOCKERS FOR LAPTOP WITH POWER SUPPLY**

**CUPBOARD:**

CHARACTERISTICS:

Quality rolled steel

Thickness of sheet metal:

Body 0,85 mm

Doors 2,00 mm

FINISHING:

Epoxy paint in RAL colour (1 colour)

CUPBOARD DESCRIPTION:

2 columns of 8 lockers

- Slated coping
- 150 mm skirting board

WIDTH:

+/-800 mm

FRONT HEIGHT:

1950 mm

REAR HEIGHT: 2200 mm  
TOTAL QUANTITY: 6

**LOCKERS:**

CHARACTERISTICS Anti-vandal (thick walls)  
Web-based  
Opening with badges type MIFARE DESFIRE EV1 8K  
220V power supply in each locker

DOOR FINISHING: Epoxy paint in RAL colour (choice of 4 colours)

DOOR DESCRIPTION: Doors and trolley built into the cupboard body  
3mm cam lock  
Pop to open system

WIDTH: +/- 400 mm

DEPTH: +/- 500 mm

TOTAL QUANTITY: 96

**DRIVE:**

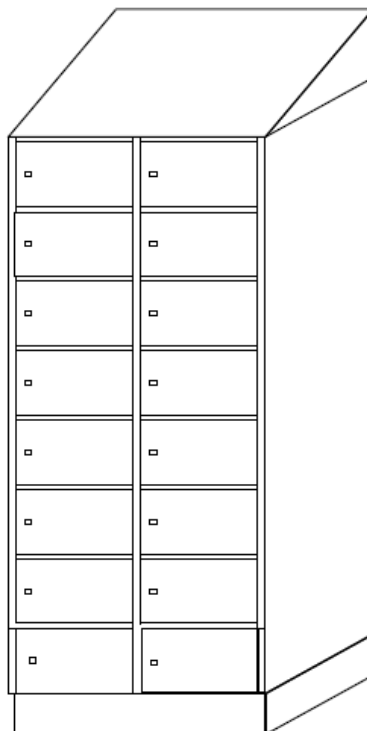
TYPE: Web-based system (permanent or variable)

TOTAL QUANTITY: 3 mounted in a drive box

**FIRST AID:** Emergency generator and tool box and spare parts

The *contracting authority* will provide the following:

- 230V power outlets near the drive
- Ethernet connections



### 2.3. Web-based system

The Web-based system allows to remotely manage all lockers and on different sites.

The assignment of lockers should be made through a programme operating in a Window environment.

Communication with the badge readers installed in the lockers' blocks is done through a LAN or WIFI network.

Students should have access to their lockers through MIFARE (DESFIRE EV1 8K) badge.

The management program should allow to:

- assign lockers for limited or unlimited time
- disable access to lockers
- open lockers remotely
- generate openings history of lockers (dates, type of opening, etc.)
- database imports and exports
- automatic allocation of lockers by user group
- determine rights of use to the different managers.

### 2.4. Specific locker's characteristics

- 100% recyclable material
  - Lockers have to be manufactured in a steel mill certified in ISO9001 & ISO14001
  - Steel mill should work according to ISO26000
- Robust and welded lockers
- Built-in doors of 2 mm thick sheet metal
  - Built-in doors should offer a stronger and more robust solution than visible doors (push-to-open type)
- Built-in sloped roof: Extra space for upper lockers
- Integrated 150 mm closed baseboard
- Lock mounted in a reinforced cover, covering the entire height of the locker
- Double hinge rod (thickness 6 mm)
- Warranty against manufacturing defects:
  - 12 years on cupboards and their components excluding electronic components and lacquer
  - 7 years on electronic components (covered by the 'All-in' contract)
  - 5 years on epoxy paint
- Choice of colours:
  - Epoxy paint thickness 60-80MU
  - Choice of all RAL colours: 1 colour for the body and 4 colours for doors

- 'Plug-and-play' system
- Possibility to lengthen or shorten rows without any modification of the electronics.

## 2.5. "All-in" maintenance & software update

- Annual Electronic Locker Verification and Maintenance included:
  - Checks and possible replacement of all components part of the locking system
  - Services (including travel) of technicians
- Assistance:
  - Support for replacement of components in a kit 'toolbox'. The 'toolbox' allows internal technicians to perform immediate interventions
  - Assistance with the use and management of the electronic system
  - Telephone assistance for questions or problems.
- Grounds for Exclusion:
  - Damage caused by third parties.
- Update of the Web-Based software installed on the Server at the *contracting authority's*:
  - Annual update of the Web-Based system on site.
  - Telephone assistance in case of problems.

## 2.6. Leasing

The contract should be made upon a leasing system over 7 years with a residual value of +/- 2,5% of the starting amount.

Leasing costs over a period of 7 years should not exceed +/- 13,5% of the amount of total investment.



### 3. DELIVERABLES

The tender shall contain a set of items which must be proposed by the tenderer. Tenderers must, on pain of nullity of their tender, make an offer for all items listed in the **Annex 4**.

#### 3.1. Web-based electronic lockers – Students lockers

Should be included in price

- Placement and coupling of cupboards
- Commissioning
- Standard RAL colours (1 for cupboard, 4 for lockers door)
- Slated coping
- Closed 150 mm skirting board
- All-in maintenance service during the first 7 years
- Update of Web-based software during the first 7 years
- Emergency generator
- 1 drive per +/- 100 lockers
- Delivery and Placement

✂ *Price per locker*

#### 3.2. Web-based electronic lockers – Lockers with power supply

Should be included in price

- Placement and coupling of cupboards
- Commissioning
- Standard RAL colours (1 for cupboard, 4 for lockers door)
- Slated coping
- Closed 150 mm skirting board
- All-in maintenance service during the first 7 years
- Updating of Web-based software during the first 7 years
- Emergency generator
- Power supply 230V-65 watt
- 1 drive per 32 lockers
- Delivery and Placement

✂ *Price per locker*

#### 3.3. 7-years Leasing

- Residual Value
- Leasing Cost

✂ *Pourcentage on total value*

### 3.4. Web-based licence & annual maintenance contract

Starting from the 8<sup>th</sup> year

“All-in” maintenance contract & updating of web-based software

*€ Price per year/locker*

*As for example (these are not the colour chosen by the contracting authority)*

