ERASMUS +

HIGHER EDUCATION CAPACITY BUILDING

Erasmus+ Project

New curricula in Precision Agriculture using GIS technologies and sensing data
(CUPAGIS)

Invitation to Tender for Equipment Procurement

 # EXO/04.12/2019

Dear Sir/Madam,

We kindly invite you to submit your **tender for the supply of Equipment** (see the technical specifications provided in the Part-III of this document) within the framework of the Project "*New curricula in Precision Agriculture using GIS technologies and sensing data*"-(*CUPAGIS)*, co-funded by the **ERASMUS+ Programme of the European Union**.

When preparing your tender, please be guided by this invitation to tender.

Tenders should be submitted in English **by email to** info@ecm-academy.de not later than **Thursday, December 19, 2019 at 17:00** (Berlin local time).

We kindly ask you to be ensure that the tender is signed, stamped and in the **PDF** format. An acknowledgement of receipt will be sent to you accordingly.

For any additional information, please do not hesitate to contact us by email.

Dr. Arnold Sterenharz

Managing Director, Project Management Director
EXOLAUNCH GmbH, ECM academy

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Part I - Project Description

1.1. About CUPAGIS

The "New curricula in Precision Agriculture using GIS technologies and sensing data" – CUPAGIS (project reference number 597962-EPP-1-2018-1-EE-EPPKA2-CBHE-JP) is a three-year duration multi-country joint project co-funded by the Erasmus+ Capacity Building in the Field of Higher Education Programme of the European Union (EU) launched in 2018. The aim of the project is to modernize curricula in precision agriculture in physical sciences, such as Geographic Information System/GIS, big data, remote sensing. The project will create the environment for education of high skilled specialists in line with labor market and according to EU best practices and Bologna process.

Anticipated project outputs and results:

- Review of the current curricula in precision agriculture through analysis
- Agreement on instructional strategy and guidelines for BA/MSc curricula design including the use of new Educational Technologies
- A set of new core curricula and transferable modules including innovative teaching facilities
- Updated current two cycle curricula and programs in precision agriculture according to the Bologna requirements and the new developments
- Developed, implemented and accredited new practice-oriented, student-focused core, and transferable curricula including ECTS
- Bringing the Higher Education Institutions of Algeria (DZ) closer to labor market. Besides that, creation of the innovative teaching facilities: a new equipped laboratory PAGIS, a class VCR, Precision agriculture using sensing data (Service Office PASENSO).

1.2. CUPAGIS Partners – Project Consortium

The following institutions (P) from Partner and European countries are involved in the project consortium:

P1   Tallinn University of Technology (TalTech), Tallinn/Estonia
P2   Technische Universität Berlin (TUB), Berlin/Germany
P3   Agricultural University Plovdiv (AU), Plovdiv/Bulgaria
P4   Czech University of Life Sciences Prague (CULS), Prague/Czech Republic
P5   EXOLAUNCH GmbH (EXO), Berlin/Germany
P6   Djillali Liabes University (UDL), Sidi bel Abbès/Algeria
P7   Université d'Oran Ahmed Ben Bella (UniOran), Oran/Algeria
P8   Ibn-Khaldoun University Tiaret (UIK), Tiaret/Algeria
P9   Université de Mostaganem (UMAB), Mostaganem/Algeria
P10   Ecole Nationale Superieure d'Agronomie (ENSA), Algiers/Algeria
P11   Ministry of Higher Education and Scientific Research (MESRS), Bwn Aknoun/ Algeria

1.3. Disclaimer

"This project has been funded with support from the European Commission. This document reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein".

Part II – Tender Specifications

2.1. Object of the Tender

EXOLAUNCH GmbH (Reuchlin Str. 10, 10553 Berlin, Germany) announces a tender for the procurement of the equipment for the project partners universities (see 2.6), within the technical specifications provided in the Part-III of this document.

This document represents an invitation to tender for the supply of computer, multimedia, audio & video and other equipment as part of CUPAGIS Project co-funded by the ERASMUS+ Programme of the European Union.

This invitation to tender is in no way binding on the contracting authority. The contracting authority's contractual obligation commences only upon signature of the contract with the successful tenderer.

2.2. Additional Information

According to the agreements between EU and the mentioned above project partner countries, the purchased equipment and provision of services within the framework of Erasmus+ projects could be exempted from taxes (including VAT), duties and charges in the case of national authority's acceptation. On the terms of exemption from the abovementioned taxes (including VAT), duties and charges an appropriate Certificate for the VAT exemption will be provided by the project partners universities – recipients of the equipment (see 2.6).

In order to be eligible for exemption from the abovementioned taxes (including VAT), duties and charges the equipment procured within this tender should be directly and specifically imported in behalf of and delivered to the project consortium partners listed in the clause 2.6 of this tender specification and according to the Part-III.

2.3. Currency and Language of the Tender

The tenders shall be presented in EURO for both the unit prices and the overall amount of the commitment. The currency of payment will be also in EURO. The tenders shall be presented in English.

2.4. Submission of the Tenders: Means and Deadline

Tenders should be submitted in English by email to info@ecm-academy.de not later than **Thursday, December 19, 2019 at 17:00** (Berlin local time). No offer may be submitted or modified after this date.

We kindly ask you to be ensure that the tender is signed, stamped and in the PDF format. An acknowledgement of receipt will be sent to you accordingly.

2.5. Documents to be Submitted by the Tenderer

The tenderer must complete and provide the following documents:

1. Tender duly signed, dated and sealed; including:

- Profile of the company;
- Main contact's name, phone number, email and address;
- Completed bill of quantities (see Part-III) for the selected section(s) with unit and total prices;
- Technical specifications of the offered equipment;
- Warranty conditions;
- Catalogs of the proposed equipment.

2. A photocopy of the trade name registration papers;
3. Signed letter for after-sales service and at least 12-month warranty letter after the equipment installation.

Additional documents such as instructions and operating manuals shall be required with the delivery of equipment.

All necessary supporting documents and international certificates required in the country of destination for customs clearance must be provided.

2.6. Goods Delivery Charges and Locations

All shipping, warranty, customs clearance and installation expenses should be included in the price.

Equipment should be carried out "door-to-door" to the following universities and must include installation (LAN setup for 1 or 2 rooms, server setup, commissioning and installation of related equipment supplied).

The full addresses and contact details of the responsible persons in partner universities will be provided after the signature of the contract with the selected supplier.

Recipients of equipment (5 Universities):

No	Partner	Acronym	Location
P6	Djillali Liabes University	UDL	Abbès/Algeria
P7	Université d'Oran Ahmed Ben Bella	UniOran	Oran/Algeria
P8	Ibn-Khaldoun University Tiaret	UIK	Tiaret/Algeria
P9	Université de Mostaganem	UMAB	Mostaganem/Algeria
P10	Ecole Nationale Superieure d'Agronomie	ENSA	Algiers/Algeria

2.7. Goods Delivery Time

The delivery period may not exceed 60 days from the date of signature of the contract with the selected supplier.

2.8. Payment Terms

100% payment after signing all acceptance certificates and the proof that the equipment is installed in the above-mentioned universities (see 2.6).

2.9. Evaluation and Award of the Contract

The key principles that shall govern the process of evaluation of tenders are listed as follows:

- Non-discrimination: Any discrimination with regard to tenderers on the basis of nationality is forbidden.
- Equal treatment: All tenders submitted within the set deadline are to be treated equally. They will be evaluated on the basis of the same terms, conditions and requirements set in the tender documents.
- Transparency: Detailed written records are be kept of all actions of the evaluation panel. All decisions taken will be sufficiently justified and documented. In this way, any discriminatory behaviour can be prevented and if not prevented, then monitored.
- Confidentiality: The process of evaluation of tenders are be confidential. Information concerning the process of evaluation of tenders and the award recommendation is not to be disclosed to the tenderers or to any other person who is not officially concerned with the process, until information on the award of the contract is communicated to all tenderers.

Exclusion criteria: Tenderers are excluded from participation in procurement procedures if:

- they have submitted a tender that does not meet all the requirements provided in this document, including the ones in the clause 2.5.
- they are bankrupt or being wound up, are having their affairs administered by the courts, have entered into an arrangement with creditors, have suspended business activities, are the subject of proceedings concerning those matters, or are in any analogous situation arising from a similar procedure provided for in national legislation or regulations,
- they have been convicted of an offence concerning their professional conduct by a judgment which has the force of res judicata,
- they have not fulfilled obligations relating to the payment of social security contributions or the payment of taxes in accordance with the national legal provisions,
- they have been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organisation or any other illegal activity.

In the selection process only will be considered the suppliers who would provide delivery of the equipment to all of the above-mentioned universities (see 2.6).

Selection criteria: tenderers will be selected based on the following criteria:

1. Having submitted the tender that complies with all of the specifications, requirements and offers the lowest price, as well as all other evaluation criteria indicated, shall be selected;
2. Having the necessary economic, financial, technical and professional capacity to perform the contract.

Award criteria: the awarded tenderer will be the one who offered the best quality and price tender out of those submitted by tenderers which are not excluded and which meet the selection criteria.

The awarded tenderer should:

1. Be in full compliance of tender to the tender specifications, bill of quantities and technical specifications;
2. Have previous related projects and references including proofs of similar contracts completed in the past;
3. Provided technical information for all the equipment to be supplied.

The contract will be awarded to the tenderer whose tender has been found to be in conformity with the invitation to tender. The award method will be the "best value for money" meaning that the winning tender is the one offering the best quality/price ratio., taking into account the criteria announced in the specifications.

In the selection process only will be considered the suppliers who would provide delivery of the equipment to all of the above-mentioned universities (see 2.6).

2.10. Notification of Results

Tenderers will be notified of the results within 10 days from the closing date for submission by email. Thus, it is important to provide the email of the main contact person.

Part III – Bill of Quantities and Technical Specifications

The following base set is planned for procurement within this tender (total 5 sets):

PAGIS 1	Required Technical Specifications and Standards	Conformity to Specifications
	Personal Computer	*3 pcs*
1	**Form-factor: Desktop**	
2	**CPU not less than Intel i5 8400**	
3	**RAM not less than 16GB DDR4 2666Mhz**	
4	**SSD not less than 240Gb**	
5	**HDD not less than 1000Gb 7200rpm SATA III**	
6	**Graphic Card not less than 6Gb GTX1660**	
7	**PSU not less than 500W 80 Plus Silver**	
8	**Keyboard USB with Numpad Eng/Rus**	
9	**Mouse USB optical**	
10	**I/O interfaces:** Front panel: - USB 3.0 ports – not less than 2 - Audio jacks: front-side Mic/Headset ports Rear panel: - USB 2.0/3.0 ports – not less than 4 - Audio jack: Line-In - 1 - Audio jack: Line-Out - 1 - Video output VGA - 1 - Video output DisplayPort – 1 - LAN-port Gigabit Ethernet (RJ-45) - 1	
11	**Internal slots: PCI Express x16, PCI Express x1**	
12	**Audio: not less than High Definition Audio**	

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13	**Monitor not less than 23,5" IPS HDMI**	
14	**Operating System - Windows 10 Professional**	
15	**All interfaces cables and connectors must be included**	

PAGIS 2	Required Technical Specifications and Standards	Conformity to Specifications
	Notebook	*1 pcs*
1	**Screen Size not less than 15,6"**	
2	**CPU not less than Intel i3 7020U**	
3	**RAM not less than 4GB DDR4**	
4	**HDD not less than 1000Gb**	
5	**Graphic Card not less than HD620**	
6	**Optical drive : DVDRW**	
7	**Keyboard USB Eng/Rus**	
8	**All interfaces cables and connectors must be included**	

PAGIS 3	Required Technical Specifications and Standards	Conformity to Specifications
	Workstation	*1 pcs*
1	**Form-factor: Desktop**	
2	**CPU not less than Intel i9 9900K**	
3	**RAM not less than 32GB DDR4 2666Mhz**	
4	**SSD not less than 512Gb**	
5	**HDD not less than 2x1Tb 7200RPM**	
6	**Graphic Card not less than 4Gb GTX1050Ti**	
7	**PSU not less than 700W 80 Plus Silver**	
8	**Keyboard USB with Numpad Eng/Rus**	
9	**Mouse USB optical**	
10	**Motherboard with support of SLI and Raid function**	
11	**Case with 2 additional coolers**	
12	**I/O interfaces:** Front panel: - USB 3.0 ports – not less than 2 - Audio jacks: front-side Mic/Headset ports Rear panel: - USB 2.0/3.0 ports – not less than 4 - Audio jack: Line-In - 1	

	- Audio jack: Line-Out - 1	
	- Video output VGA - 1	
	- Video output DisplayPort – 1	
	- LAN-port Gigabit Ethernet (RJ-45) - 1	
13	**Audio:** not less than High Definition Audio	
14	**Monitor not less than 2 x 27" IPS 1920x1080**	
15	**All interfaces cables and connectors must be included**	

PAGIS 4	Required Technical Specifications and Standards	Conformity to Specifications
	Data server	***1 pcs***
1	**Form-factor: Desktop**	
2	**CPU not less than Intel i5 8400**	
3	**RAM not less than 8GB DDR4 2666Mhz**	
4	**SSD not less than 256Gb**	
5	**HDD not less than 4x8Tb 7200RPM**	
6	**Graphic Card not less than HD630**	
7	**PSU not less than 600W 80 Plus Silver**	
8	**Keyboard USB with Numpad Eng/Rus**	
9	**Mouse USB optical**	
10	**Motherboard with support of Raid function and 6 sata ports**	
11	**Case with 2 additional coolers**	
12	**I/O interfaces:** Front panel: - USB 3.0 ports – not less than 2 - Audio jacks: front-side Mic/Headset ports Rear panel: - USB 2.0/3.0 ports – not less than 4 - Audio jack: Line-In - 1 - Audio jack: Line-Out - 1 - Video output VGA - 1 - Video output DisplayPort – 1 - LAN-port Gigabit Ethernet (RJ-45) - 1	
13	**Audio:** not less than High Definition Audio	
13	**All interfaces cables and connectors, memory Card 64Gb, optical lens and bag must be included**	

PAGIS 5	Required Technical Specifications and Standards	Conformity to Specifications
	UPS	*1 pcs*
1	**Type: line interactive**	
2	**Capacity 1000VA/800W**	
3	**Waveform Pure sine wave**	
4	**Inbuilt battery 12V/7Ah x 2**	
5	**Communications USB and RJ-45**	
6	**Frequency input range 50/60 Hz auto-sense**	
8	**All interfaces cables and connectors must be included**	

PAGIS 6	Required Technical Specifications and Standards	Conformity to Specifications
	Personal Cloud Storage	*1 pcs*
1	**CPU not less than Marvell Armada 380 1,3Ghz**	
2	**RAM not less than 512Mb**	
3	**Two 2.5" or 3.5" SATA II hard disk interface**	
4	**Not less than one Gigabit Ethernet RJ-45 connector**	
5	**Not less than two USB 3.0 ports**	
6	**Not less than one USB 2.0 port**	
7	**2x4 Tb HDD must be included**	
8	**All interfaces cables and connectors must be included**	

PAGIS 7	Required Technical Specifications and Standards	Conformity to Specifications
	24 port Gigabit Switch	*1 pcs*

VCR1	Required Technical Specifications and Standards	Conformity to Specifications
	Personal Computer All in One	*16 pcs*
1	**Form-factor**: AIO	
2	**CPU not less than Intel i7 8700**	
3	**RAM not less than 8GB DDR4 2666Mhz**	
4	**SSD not less than 480Gb**	
5	**Graphic Card not less than 2Gb GTX1030**	
6	**PSU not less than 120W**	
7	**Keyboard USB with Numpad Eng/Rus**	
8	**Mouse USB optical**	

9	**Headset with microphone**	
10	**Webcam HD**	
11	**I/O interfaces:** - USB 3.0 ports – not less than 4, USB 2.0 ports not less than 1 - Audio jacks: Mic/Headset ports - Wireless data transmission 802.11 b/g/n - 1 - Video output HDMI - 1 - LAN-port Gigabit Ethernet (RJ-45) - 1	
12	**Audio:** not less than High Definition Audio	
13	**Screen Size and Resolution not less than 24" IPS 1920x1080**	
14	**Operating System - Windows 10 Professional**	
15	**All interfaces cables and connectors must be included**	

VCR2	Required Technical Specifications and Standards	Conformity to Specifications
	MFD A4	*1 pcs*
1	**Print method: laser monochrome**	
2	**Available functions Print, Copy and Scan**	
3	**Duplex printing: yes**	
4	**Print speed not less than 38 p/m**	
5	**Connectivity: Ethernet, Wlan**	
6	**Extra cartridge and must be included**	
7	**Operating System compatibility - Windows 7, 8.1, 10**	
8	**All interfaces cables and connectors must be included**	

VCR3	Required Technical Specifications and Standards	Conformity to Specifications
	Projector	*1 pcs*
1	**Type: Ultra-short-throw**	
2	**Colour Light Output not less than 3,200 Lumen- 1,900 Lumen (economy)**	
3	**Interfaces USB 2.0 Type B, HDMI in (2x), Stereo mini jack audio in (3x), VGA out, Wireless LAN IEEE 802.11b/g/n**	
4	**Resolution not less than XGA 1920x1080**	
12	**Projection System 3LCD Technology**	
13	**All interfaces cables and connectors and wallmount must be included**	

VCR4	Required Technical Specifications and Standards	Conformity to Specifications

		Smart Board	*1 pcs*
1	**Type: Interactive board wall mount or floor stand**		
2	**Screen size not less than 77 inches**		
3	**Touch: Enables you to write, erase and perform mouse functions by touching the interactive whiteboard with your finger or a pen**		
4	**SMART lesson activities must be included**		
12	**SMART collaborative learning software must be included**		
13	**All interfaces cables and connectors, usb pen, wallmount or floor stand must be included**		
VCR5	Required Technical Specifications and Standards		Conformity to Specifications
		Notebook	*1 pcs*
1	**Screen Size not less than 15,6"**		
2	**CPU not less than Intel i5 8250U**		
3	**RAM not less than 8GB DDR4**		
4	**HDD not less than 1000Gb**		
5	**Graphic Card not less than 2Gb MX110**		
6	**Optical drive : DVDRW**		
7	**Keyboard USB Eng/Rus**		
8	**All interfaces cables and connectors must be included**		
VCR6	Required Technical Specifications and Standards		Conformity to Specifications
		16 port Gigabit Switch	*1 pcs*
PASENSO1	Required Technical Specifications and Standards		Conformity to Specifications
		Personal Computer All in One	*2 pcs*
1	**Form-factor**: AIO		
2	**CPU not less than Intel i3 8100**		
3	**RAM not less than 4GB DDR4 2666Mhz**		
4	**SSD not less than 480Gb**		
5	**PSU not less than 90W**		
6	**Keyboard USB with Numpad Eng/Rus**		
7	**Mouse USB optical**		
8	**Headset with microphone**		
9	**Webcam HD**		

10	**I/O interfaces:**
	
	    - USB 3.0 ports – not less than 4, USB 2.0 ports not less than 1
	
	    - Audio jacks: Mic/Headset ports
	
	    - Wireless data transmission 802.11 b/g/n - 1
	
	    - Video output HDMI - 1
	
	    - LAN-port Gigabit Ethernet (RJ-45) - 1	

11	**Audio:** not less than High Definition Audio	
12	**Screen Size and Resolution not less than 21,5" IPS 1920x1080**	
13	**Operating System -Windows 10 Professional, Office2019 Home and Business**	
14	**All interfaces cables and connectors must be included**	

PASENSO2	Required Technical Specifications and Standards	Conformity to Specifications
	MFD A4	*1 pcs*
1	**Print method: laser monochrome**	
2	**Available functions Print, Copy and Scan**	
3	**Print speed not less than 22 p/m**	
4	**Extra cartridge and drum cartridge must be included**	
12	**Operating System compatibility - Windows 7, 8.1, 10**	
13	**All interfaces cables and connectors must be included**	

PASENSO3	Required Technical Specifications and Standards	Conformity to Specifications
	Projector	*1 pcs*
1	**Type: 1 chip DLP**	
2	**Colour Light Output not less than 4,200 Lumens**	
3	**Interfaces USB 2.0 Type B, HDMI (1x), Stereo mini jack audio in (1x), VGA in, RJ-45**	
4	**Resolution not less than FullHD 1920x1080**	
5	**Speaker not less than 10W**	
6	**Tripod Screen not less than 245x245cm**	
7	**All interfaces cables and connectors and wallmount must be included**	

PASENSO4	Required Technical Specifications and Standards	Conformity to Specifications
	Digital Camera (Kit)	*1 pcs*
1	**Type: Pentamirror**	
2	**Effective pixels not less than 18Mp APS-C sensor**	

3	**Viewfinder 9-point AF optical**		
4	**Inbuilt Wifi**		
5	**LCD Screen not less than 2,7"**		
6	**All interfaces cables and connectors, memory Card 64Gb, optical lens 18-55mm and bag must be included**		
PASENSO5	Required Technical Specifications and Standards		Conformity to Specifications
	Notebook		*1 pcs*
1	**Screen Size not less than 15,6"**		
2	**CPU not less than Intel i3 7020U**		
3	**RAM not less than 4GB DDR4**		
4	**HDD not less than 1000Gb**		
5	**Graphic Card not less than HD620**		
6	**Optical drive: DVDRW**		
7	**Keyboard USB Eng/Rus**		
8	**All interfaces cables and connectors must be included**		
SOFT	Required Technical Specifications and Standards		Conformity to Specifications
	Matlab, Piton, Ubuntu		*1 pcs*