

## Purchase Contract

(hereafter the “Contract”)

### 1. CONTRACTUAL PARTIES

#### 1.1 Fyzikální ústav AV ČR, v. v. i.,

with seat: Na Slovance 1999/2, 182 21 Praha 8,  
represented by: RNDr. Michael Prouza, Ph.D., Director,  
Registered in the Register of public research institutions of the Ministry of Education, Youth and Sports  
of the Czech Republic.

Bank: [REDACTED]

Account No. [REDACTED]

ID No.: 68378271

Tax ID No.: CZ68378271

(hereinafter the “Buyer”)

and

#### 1.2 Pragolab s.r.o.,

with seat: Nad Krocínkou 55/285, 190 00 Praha 9,  
represented by: Bc. Ladislav Náměstek, Director,  
registered in the Commercial Register kept by the MoD by the court, section C, insert 14590.

Bank: [REDACTED]

Account No.: [REDACTED]

ID No.: 48029289

Tax ID No.: CZ48029289

(hereinafter the “Seller”),

(the Buyer and the Seller are hereinafter jointly referred to as the “Parties” and each of them  
individually as a “Party”).



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## 2. FUNDAMENTAL PROVISIONS

- 2.1 The Buyer is a public research institution whose primary activity is scientific research in the area of physics, especially elementary particles physics, condensed systems, plasma and optics.
- 2.2 The Buyer wishes to acquire the subject of performance hereof (Optical microscope system) used to observe the sample, to detect the direction of the major axes of the crystals, to study ferroelastic domains and to modify domain structures.
- 2.3 The Buyer is the beneficiary of the subsidy for the project "**Solid state physics for the 21st century (SOLID 21)**", Registry No CZ.02.1.01/0.0/0.0/16\_019/0000760 (hereinafter the "**Project**"), within the Operational Program Research, Development and Education (hereinafter the "**OP RDE**") of the provider Ministry of Education, Youth and Sports of the Czech Republic. The subject of public procurement will be co-financed by the EU Structural Funds.
- 2.4 The Seller was selected as the winner of a public procurement procedure announced by the Buyer for the public contract called "**Optical microscope system for the project SOLID 21**" (hereinafter the "**Procurement Procedure**").
- 2.5 The documentation necessary for the execution of the subject of performance hereof consist of
  - 2.5.1 Technical specifications of the subject of performance hereof attached as **Annex No. 1** hereto.
  - 2.5.2 The Seller's bid submitted within the Procurement Procedure in its parts which describe the subject of performance in technical detail (hereinafter the "**Sellers's Bid**"); the Sellers's Bid forms **Annex No. 2** to this Contract and is an integral part hereof.

In the event of a conflict between the Contract's Annexes the technical specification / requirement of the higher level / quality shall prevail.

- 2.6 The Seller declares that he has all the professional prerequisites required for the supply of the subject of performance under this Contract, is authorised to supply the subject of performance and there exist no obstacles on the part of the Seller that would prevent him from supplying the subject of this Contract to the Buyer.
- 2.7 The Seller acknowledges that the Buyer considers the Seller's participation in the Procurement Procedure, provided that the Seller complies with all qualification requirements, as the confirmation of the fact that the Seller is capable of providing performance under the Contract with such knowledge, diligence and care that is associated and expected of the Seller's profession, and that the Seller's potential performance lacking such professional care would give rise to corresponding liability on the Seller's part. The Seller is prohibited from misusing his qualities as the expert or his economic position in order to create or exploit dependency of the weaker Party or to establish an unjustified imbalance in the mutual rights and obligation of the Parties.
- 2.8 The Seller acknowledges that the Buyer is not in connection to the subject of this Contract an



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entrepreneur and also that the subject of this Contract is not related to any business activities of the Buyer.

- 2.9 The Seller acknowledges that the production and delivery of the subject of performance within the specified time and of the specified quality, as shown in Annexes No. 1 and 2 of this Contract (including the invoicing), is essential for the Buyer. If the Seller fails to meet contractual requirements, it may incur damage of the Buyer.
- 2.10 The Parties declare that they shall maintain confidentiality with respect to all facts and information, which they learn in connection herewith and / or during performance hereunder, and whose disclosure could cause damage to either Party. Confidentiality provisions do not prejudice obligations on the part of the Buyer arising from valid legislation.

### **3. SUBJECT-MATTER OF THE CONTRACT**

- 3.1 The subject of this Contract is the obligation on the part of the Seller to deliver and transfer into the Buyer's ownership the **Optical microscope system** specified in detail in Annexes No. 1 and No. 2 hereto (hereafter the "**Equipment**") and the Buyer undertakes to take delivery of the Equipment and to pay to the Seller the agreed upon price.
- 3.2 The following activities form an integral part of the performance to be provided by the Seller:
- 3.2.1 Transport of the Equipment incl. all accessories specified in Annexes 1 and 2 of the Contract to the site, un-packaging and control thereof;
  - 3.2.2 Installation of the Equipment including connection to installation infrastructure at the site;
  - 3.2.3 Execution of the acceptance tests;
  - 3.2.4 Delivery of instructions and operating and repair manuals to the Equipment in Czech or English language to the Buyer, in electronic and hardcopy (printed) versions;
  - 3.2.5 Training of operators at the site (at least 4 hour training of at least 2 operators);
  - 3.2.6 Free-of-charge warranty service including service inspections;
  - 3.2.7 Provision of technical support in the form of consultations.
- 3.3 The Seller shall be liable for the Equipment and related services to be in full compliance with this Contract, its Annexes, the submitted bid and all valid legal regulation, technical and quality standards and that the Buyer will be able to use the Equipment for the defined purpose. In case of any conflict between applicable standards it is understood that the stricter standard or its part shall always apply.
- 3.4 The delivered Equipment and all its parts and accessories must be brand new and unused.



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#### **4. PERFORMANCE PERIOD**

- 4.1 The Seller undertakes to manufacture, deliver, install and handover the Equipment to the Buyer within 6 months of the conclusion of this Contract.
- 4.2 The performance period shall be extended for a period during which the Seller could not perform due to obstacles on the part of the Buyer.

#### **5. PURCHASE PRICE, INVOICING, PAYMENTS**

- 5.1 The purchase price is based on the Seller's submitted bid and amounts to 999 114,00 - CZK (in words: Nine Hundred Ninety-Nine Thousand One Hundred Fourteen) excluding VAT (hereinafter the "**Price**"). VAT shall be paid by the Buyer and settled in accordance with the valid Czech regulation.
- 5.2 The Price represents the maximum binding offer by the Seller and includes any and all performance provided by the Seller in connection with meeting the Buyer's requirements for the proper and complete delivery of the Equipment hereunder, as well as all costs that the Seller may incur in connection with the delivery, installation and handover, and including all other costs of expenses that may arise in connection with creation of an intellectual property and its protection.
- 5.3 The Parties agreed that the Price shall be invoiced after the handover protocol in accordance with Section 8.4 will have been signed. In case the Equipment will be delivered with minor defects and / or unfinished work, the Price shall be invoiced after removal of these minor defects and / or unfinished work.
- 5.4 The invoice issued by the Seller as a tax document must contain all information required by the applicable laws of the Czech Republic. Invoices issued by the Seller in accordance with this Contract shall contain in particular following information:
  - 5.4.1 name and registered office of the Buyer,
  - 5.4.2 tax identification number of the Buyer,
  - 5.4.3 name and registered office of the Seller,
  - 5.4.4 tax identification number of the Seller,
  - 5.4.5 registration number of the tax document,
  - 5.4.6 scope of the performance (including the reference to this Contract),
  - 5.4.7 the date of the issue of the tax document,
  - 5.4.8 the date of the fulfilment of the Contract,





- 5.4.9 purchase Price,
- 5.4.10 registration number of the Project (CZ.02.1.01/0.0/0.0/16\_019/0000760),
- 5.4.11 registration number of this Contract, which the Buyer shall communicate to the Seller based on Seller's request before the issuance of the invoice,

and must comply with the double taxation agreements, if applicable.

- 5.5 The Buyer prefers electronic invoicing, with the invoices being delivered to [efakury@fzu.cz](mailto:efakury@fzu.cz). All issued invoices shall comply with any international double taxation agreements, if applicable.
- 5.6 Invoices shall be payable within thirty (30) days of the date of their delivery to the Buyer. Payment of the invoiced amount means the date of its remittance to the Seller's account.
- 5.7 If an invoice is not issued in conformity with the payment terms stipulated by the Contract or if it does not comply with the requirements stipulated by law, the Buyer shall be entitled to return the invoice to the Seller as incomplete, or incorrectly issued, for correction or issue of a new invoice, as appropriate, within five (5) business days of the date of its delivery to the Buyer. In such a case, the Buyer shall not be in delay with the payment of the Price or part thereof and the Seller shall issue a corrected invoice with a new and identical maturity period commencing on the date of delivery of the corrected or newly issued invoice to the Buyer.
- 5.8 The Buyer shall be entitled to unilaterally set off any of his payments against any receivables claimed by the Seller due to:
  - 5.8.1 damages caused by the Seller,
  - 5.8.2 contractual penalties.
- 5.9 The Seller shall not be entitled to set off any of his receivables against any part of the Buyer's receivable hereunder.

## **6. OWNERSHIP TITLE**

- 6.1 The ownership right to the Equipment shall pass to the Buyer by handover. Handover shall be understood as delivery and acceptance of the Equipment duly confirmed by Parties on the Handover Protocol in accordance with Section 8.4.

## **7. PLACE OF DELIVERY OF THE EQUIPMENT**

- 7.1 The place of delivery and handover of the Equipment shall be the room No. 128 in the main building of the Fyzikální ústav AV ČR, v. v. i. (Institute of Physics of the Czech Academy of Sciences), at Na Slovance 1999/2, 182 21 Praha 8, Czech Republic.



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## **8. DELIVERY, INSTALLATION, HANDOVER AND ACCEPTANCE**

- 8.1 The Seller shall transport the Equipment at his own cost to the place of handover. If the shipment is intact, the Buyer shall issue delivery note for the Seller.
- 8.2 The Seller shall perform and document the installation of the Equipment and launch experimental tests in order to verify whether the Equipment is functional and meets the technical requirements of Annexes No. 1 and 2 hereof.
- 8.3 Handover procedure includes handover of any and all technical documentation pertaining to the Equipment, user manuals and certificate of compliance of the Equipment and all its parts and accessories with approved standards.
- 8.4 The handover procedure shall be completed by handover of the Equipment confirmed by the Handover Protocol containing specifications of all performed tests. The Handover Protocol shall contain the following mandatory information:
  - 8.4.1 Information about the Seller, the Buyer and any subcontractors,
  - 8.4.2 Description of the Equipment including description of all components and serial numbers,
  - 8.4.3 Description of executed acceptance tests: type of test, duration, achieved parameters,
  - 8.4.4 List of technical documentation including the manuals,
  - 8.4.5 Confirmation on training, its participants and extent,
  - 8.4.6 Eventually reservation of the Buyer regarding minor defects and unfinished work including the manner and deadline for their removal,
  - 8.4.7 Date of signature of the Equipment Handover Protocol.
- 8.5 Handover of the Equipment does not release the Seller from liability for damage caused by product defects.
- 8.6 The Buyer shall not be obliged to accept Equipment, which would show defects or unfinished work and which would otherwise not form a barrier, on their own or in connection with other defects, to using the Equipment. In this case, the Buyer shall issue a record containing the reason for his refusal to accept the Equipment.
- 8.7 Should the Buyer not exercise his right not to accept the Equipment with defects or unfinished work, the Seller and the Buyer shall list these defects or unfinished work in the Handover Protocol, including the manner and deadline for their removal. Should the Parties not be able to agree in the Handover Protocol on the deadline for removal of the defects, it shall be understood that any defects shall be removed / rectified within 14 days from the handover of the Equipment.





## 9. TECHNICAL ASSISTANCE – CONSULTATIONS

9.1 The Seller shall be obliged to provide to the Buyer free-of-charge technical assistance by phone or e-mail relating to the subject-matter hereof during the entire term of the warranty period. The Seller undertakes to provide to the Buyer paid consultations and technical assistance relating to the subject-matter hereof also after the warranty period expires.

## 10. REPRESENTATIVES, NOTICES:

10.1 The Seller authorized the following representatives to communicate with the Buyer in all matters relating to the Equipment delivery:

████████████████████  
████████████████████  
tel. ██████████

10.2 The Buyer authorized the following representatives to communicate with the Seller:

████████████████████  
e-mail: ██████████  
tel. ██████████

10.3 The above-mentioned contact persons may be changed by an unilateral written declaration of the Party delivered to the other Party.

10.4 All notifications to be made between the Parties hereunder must be made out in writing and delivered to the other Party by hand (with confirmed receipt) or by registered post (to the Buyer's or Seller's address), or in some other form of registered post or electronic delivery incorporating electronic signature (qualified certificate) to [epodatelna@fzu.cz](mailto:epodatelna@fzu.cz) in case of the Buyer and to [pragolab@pragolab.cz](mailto:pragolab@pragolab.cz) in case of the Seller.

10.5 In all technical and expert matters (discussions on the Equipment testing and demonstration, notification of the need to provide warranty or post-warranty service, technical assistance etc.) electronic communication between technical representatives of the Parties will be acceptable using e-mail addresses defined in Sections 10.1 and 10.2.

## 11. TERMINATION

11.1 This Contract may be terminated early by agreement of the Parties or withdrawal from the Contract on the grounds stipulated by law or in the Contract.

11.2 The Buyer is entitled to withdraw from the Contract without any penalty from the Seller in any of the following events:

11.2.1 The Seller is in delay with the handover longer than 4 weeks after the date pursuant to Section



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4.1 hereof.

11.2.2 Technical parameters or other conditions required in the technical specification defined in Annex No. 1 and 2 hereto and in the relevant valid technical standards will not be achieved by the Equipment at acceptance.

11.2.3 The Seller fails to remove the defects or unfinished work in time, pursuant to Section 8.7.

11.2.4 Facts emerge bearing evidence that the Seller will not be able to deliver the Equipment.

11.3 The Seller is entitled to withdraw from the Contract in the event of the Buyer being in default with the payment for more than 2 months with the exception of the cases when the Buyer refused invoice due to defect on the delivered Equipment or due to breach of the Contract by the Seller.

11.4 Withdrawal from the Contract becomes effective on the day the written notification to that effect is delivered to the other Party. The Party which had received performance from the other Party prior to such withdrawal shall duly return such performance.

## **12. INSURANCE**

12.1 The Seller undertakes to insure the Equipment against all risks, in the amount of the Price of the Equipment for the entire period commencing when transport of the Equipment starts until duly handed over to the Buyer. In case of breach of this obligation, the Seller shall be liable to the Buyer for any damage that may arise.

12.2 The Seller is liable for the damage that he has caused. The Seller is also liable for damage caused by third parties undertaken to carry out performance or his part under this Contract.

## **13. WARRANTY TERMS**

13.1 The Seller shall provide warranty for the quality of the Equipment for a period of 12 months. The warranty term shall commence on the day following the date of signing of the Handover Protocol pursuant to Section 8.4 hereof. In case the Buyer accepted the Equipment with defects or unfinished work the warranty term shall commence on the day following the date of removal of the defects or unfinished work. The warranty does not cover consumable things.

13.2 Should the Buyer discover a defect, he shall notify the Seller to rectify such defect using the email address [pragolab@pragolab.cz](mailto:pragolab@pragolab.cz). The Seller shall be obliged to review any warranty claim within 7 business days from receipt and to propose solution, unless agreed otherwise by the Parties.

13.3 During the warranty period the Seller shall be obliged to rectify any claimed defects within 14 business days from receipt of the Buyer's notification. In cases of unusual defects, the Seller shall be obliged to rectify the defect in the period corresponding to the nature of the defect and to define the deadline for the handover of the rectified Equipment.



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- 13.4 During the warranty period any and all costs associated with defect rectification / repair including transport and travel expenses shall be always borne by the Seller.
- 13.5 The repaired Equipment shall be handed over by the Seller to the Buyer on the basis of a protocol confirming removal of the defect (hereinafter the “**Repair Protocol**”) containing confirmations of both Parties that the Equipment was duly repaired and is defect-free.
- 13.6 The repaired portion of the Equipment shall be subject to a new warranty term in accordance with Section 13.1, which commences to run on the day following the date when the Repair Protocol was executed.
- 13.7 The Seller declares that he shall ensure post-warranty [out-of-warranty] service for the period of 10 years after the warranty term expires; the service terms shall be identical with provisions of Sections 13.2 and 13.3.

#### **14. CONTRACTUAL PENALTIES**

- 14.1 The Buyer shall be entitled to claim a contractual penalty against the Seller in the amount of 0,1 % of the Price for each commenced day of delay with the delivery pursuant to Section 4.1 hereof.
- 14.2 The Buyer shall have the right to a penalty in the amount of 0.1 % of the Price for each commenced day of delay with rectifying of claimed defects.
- 14.3 The Buyer shall be entitled to claim a contractual penalty against the Seller in the amount of 30 % of the Price, in case it will subsequently take advantage of the opportunity to withdraw from the Contract pursuant to Section 11.2.1 and 11.2.2.
- 14.4 In case of default in payment of any due receivables (monetary debt) under the Contract, the defaulting Buyer or Seller (the debtor) shall be obliged to pay a contractual penalty in the amount of 0.1 % of the owed amount for each commenced day of delay with the payment.
- 14.5 Contractual penalties are payable within 30 days of notification demanding payment thereof.
- 14.6 Payment of the contractual penalty does not prejudice the rights of the Parties to claim damages.

#### **15. DISPUTES**

- 15.1 Any and all disputes arising out of this Contract or the legal relationships connected with the Contract shall be resolved by the Parties by mutual negotiations. In the event that any dispute cannot be resolved by negotiations within sixty (60) days, the dispute shall be resolved by the competent court in the Czech Republic based on application of any of the Parties; the court having jurisdiction will be the court where the seat of the Buyer is located. Disputes shall be resolved exclusively by the law of the Czech Republic.





## 16. FINAL PROVISIONS

- 16.1 This Contract represents the entire agreement between the Buyer and the Seller. The relationships between the Parties not regulated in this Contract shall be governed by the Act No. 89/2012 Coll., the Civil Code, as amended (hereinafter the “**Civil Code**”).
- 16.2 In the event that any of the provisions of this Contract shall later be shown or determined to be invalid, ineffective or unenforceable, then such invalidity, ineffectiveness or unenforceability shall not cause invalidity, ineffectiveness or unenforceability of the Contract as a whole. In such event the Parties undertake without undue delay to subsequently clarify any such provision or replace after mutual agreement such invalid, ineffective or unenforceable provision of the Contract by a new provision, that in the extent permitted by the laws and regulations of the Czech Republic, relates as closely as possible to the intentions of the Parties to the Contract at the time of creation hereof.
- 16.3 This Contract may be changed or supplemented solely by means of numbered amendments in writing, furnished with the details of time and place and signed by duly authorised representatives of the Parties. The Parties expressly reject modifications to the Contract in any other manner.
- 16.4 This Contract is drawn up in three (3) counterparts, each of which is deemed to be the original. The Buyer shall receive two (2) counterparts, the Seller shall receive one (1) counterpart.
- 16.5 The Parties expressly agree that the Contract as a whole, including all attachments and data on the Parties, subject-matter of the Contract, numerical designation of this Contract, the Price and the date of the Contract conclusion, will be published in accordance with Act No. 340/2015 Coll. on special conditions for the effectiveness of some contracts, publication of these contracts and Contract Register, as amended (hereinafter the “**CRA**”). The Parties hereby declare that all information contained in the Contract and its Annexes are not considered trade secrets under § 504 of the Civil Code and grant permission for their use and disclosure without setting any additional conditions.
- 16.6 The Parties agree that the Buyer shall ensure the publication of the Contract in the Contract Register in accordance with CRA.
- 16.7 This Contract becomes effective as of the day of its publication in the Contract Register.
- 16.8 The following Annexes form an integral part of the Contract:
- Annex No. 1: Technical specification on the subject of performance
  - Annex No. 2: Technical description of the device as presented in Seller’s bid
- 16.9 The Parties, manifesting their consent with the entire contents of this Contract, attach their signature hereunder.



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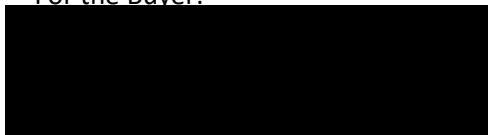




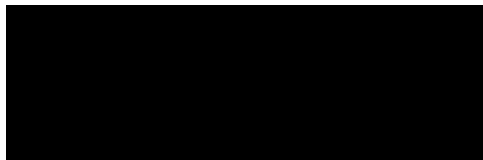
In Prague on \_\_\_\_\_

In Prague on 20.07.2020

For the Buyer:



RNDr. Michael Prouza, Ph.D.  
Director



Bc. Ladislav Náměstek  
Director



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**Annex No. 1**

**Technical specification of the Optical microscope system as defined by the Buyer**

	Description and minimum specification of the Equipment as defined by the Buyer	Description and specification of the Equipment offered by the Seller	Complies YES/NO
1.	Stand for incident and transmitted light		
2.	Contrast methods: <ul style="list-style-type: none"><li>- For incident light: Brightfield (BF), Darkfield (DF), Polarization (POL), Oblique coaxial illumination</li><li>- For transmitted light: Brightfield (BF), Polarization (POL), Phase contrast (PH)</li></ul>	<ul style="list-style-type: none"><li>- For incident light: Brightfield (BF), Darkfield (DF), Polarization (POL), Oblique coaxial illumination</li><li>- For transmitted light: Brightfield (BF), Polarization (POL), Phase contrast (PH)</li></ul>	YES
3.	Manual coaxial tree-gear focus with possibility to switch to ultra-fine focus	Manual coaxial tree-gear focus with possibility to switch to ultra-fine focus	YES
4.	Adjustable stop positions for stage movement in Z direction	Adjustable stop positions for stage movement in Z direction	YES
5.	Sample height up to 40 mm	Sample height up to 40 mm	YES
6.	Objectives revolver with minimum 5 positions, manual	Objectives revolver with 5 positions, manual	YES
7.	Illuminator for incident light: <ul style="list-style-type: none"><li>- Fluorescence turret for up to 4 filter cubes</li><li>- Cubes for BF and DF – fixed, other cubes fastened using easy-to-replace mechanism</li><li>- Color-coded and centerable aperture</li><li>- Centerable field aperture</li><li>- Possibility to include up to 2 color light filters</li><li>- Polarizer and Analyzer Slots</li></ul>	<ul style="list-style-type: none"><li>- Fluorescence turret for up to 4 filter cubes</li><li>- Cubes for BF and DF – fixed, other cubes fastened using easy-to-replace mechanism</li><li>- Color-coded and centerable aperture</li><li>- Centerable field aperture</li><li>- Possibility to include up to 2 color light filters</li><li>- Polarizer and Analyzer Slots</li></ul>	YES





	<ul style="list-style-type: none"> <li>- Integrated oblique illumination to highlight the topography of the sample surface</li> <li>- Filter cubes: BF, DF, DAPI, FITC and Rhodamine</li> </ul>	<ul style="list-style-type: none"> <li>- Integrated oblique illumination to highlight the topography of the sample surface</li> <li>- Filter cubes: BF, DF, DAPI, FITC and Rhodamine</li> </ul>	
8.	<p>Light source:</p> <ul style="list-style-type: none"> <li>- High performance LED for both incident and transmitted light</li> <li>- Power equivalent to 100W halogen light</li> <li>- Constant color temperature 4500K</li> <li>- Switching between the incident and transmitted light on the stand of the microscope</li> <li>- Continuous intensity adjustment</li> </ul>	<p>Light source:</p> <ul style="list-style-type: none"> <li>- High performance LED for both incident and transmitted light</li> <li>- Power equivalent to 100W halogen light</li> <li>- Constant color temperature 4500K</li> <li>- Switching between the incident and transmitted light on the stand of the microscope</li> <li>- Continuous intensity adjustment</li> </ul>	YES
9.	<p>XY Stage with telescopic XY control with adjustable torque and rubber surface and detachable specimen holder with possibility of one-handed glass insertion</p>	<p>XY Stage with telescopic XY control with adjustable torque and rubber surface and detachable specimen holder with possibility of one-handed glass insertion</p>	YES
10.	<p>Condenser:</p> <ul style="list-style-type: none"> <li>- Centerable condenser with coded aperture and a switchable top lens with NA <math>\geq 0.9</math></li> <li>- Six-position disc for DIC, filter rings for DF, PH (individual rings are centerable)</li> <li>- Adjustable aperture</li> <li>- Second head with long working distance <math>WD \geq 13.5</math> and <math>NA \geq 0.5</math> for using with a heating stage</li> </ul>	<p>Condenser:</p> <ul style="list-style-type: none"> <li>- Centerable condenser with coded aperture and a switchable top lens with NA 0.9</li> <li>- 6-position disc for DIC, filter rings for DF, PH (individual rings are centerable)</li> <li>- Adjustable aperture</li> <li>- Second head with long working distance <math>WD=15</math></li> </ul>	YES





		and NA=0.5 for using with a heating stage	
11.	<p>Polarizing filters:</p> <ul style="list-style-type: none"> <li>- Rotatable analyzer 360° with a step 0.1° (incident and transmitted light)</li> <li>- Switchable polarizer, adjustable in 3 directions 0°, 45°, 90° (incident light only)</li> <li>- Swing-out polarizer for transmitted light, 360° rotatable with locking</li> </ul>	<p>Polarizing filters:</p> <ul style="list-style-type: none"> <li>- Rotatable analyzer 360° with a step 0.1° (incident and transmitted light)</li> <li>- Switchable polarizer, adjustable in 3 directions 0°, 45°, 90° (incident light only)</li> <li>- Swing-out polarizer for transmitted light, 360° rotatable with locking</li> </ul>	YES
12.	<p>Tube:</p> <ul style="list-style-type: none"> <li>- Trinocular tube with observation angle max. 30°</li> <li>- Adjustable interpupillary distance</li> <li>- Camera port with diameter <math>D \geq 19</math> mm faced upwards, positioned in the optical axis line</li> <li>- 3 beam splitter position: 100%:0%, 50%:50%, 0%:100% between eyepiece and camera port</li> <li>- Duo documentation adapter for mounting on tube, with beam splitter 100%/0% and 0%/100%</li> </ul>	<ul style="list-style-type: none"> <li>- Trinocular tube with fixed viewing angle 30°</li> <li>- Adjustable interpupillary distance</li> <li>- Camera port with diameter <math>D=19</math> mm faced upwards, positioned in the optical axis line</li> <li>- 3 beam splitter position: 100%:0%, 50%:50%, 0%:100% between eyepiece and camera port</li> <li>- Duo documentation adapter for mounting on tube, with beam splitter 100%/0% and 0%/100%</li> </ul>	YES
13.	<p>Eyepiece:</p> <ul style="list-style-type: none"> <li>- With magnification factor 10x</li> <li>- Field view diameter <math>\geq 25</math> mm</li> <li>- Adjustable diopter correction</li> <li>- Interchangeable plastic eyecups</li> <li>- Possibility of observation of the sample with or without glasses</li> </ul>	<ul style="list-style-type: none"> <li>- With magnification factor 10x</li> <li>- Field view diameter <math>\geq 25</math> mm</li> <li>- Adjustable diopter correction</li> <li>- Interchangeable plastic eyecups</li> </ul>	YES





		<ul style="list-style-type: none"> <li>- Possibility of observation of the sample with or without glasses</li> </ul>	
14.	<p>Objectives (semi-apochromatic, infinite, parfocal, anti-reflex layer):</p> <ul style="list-style-type: none"> <li>- Lens 2.5x/0.07, WD<math>\geq</math>12 mm</li> <li>- Lens 5x/0.15, WD<math>\geq</math>11 mm</li> <li>- Lens 20x/0.40, WD<math>\geq</math>10.5 mm</li> <li>- Lens 50x/0.55, WD<math>\geq</math>8 mm</li> <li>- Lens 63x/0.70, WD 2.6 – 1.8 mm, PH</li> <li>- 20x/0.40 lens, WD<math>\geq</math>6.5 mm, PH</li> </ul>	<p>Objectives (semi-apochromatic, infinite, parfocal, anti-reflex layer):</p> <ul style="list-style-type: none"> <li>- Lens 2.5x/0.07, WD=12 mm</li> <li>- Lens 5x/0.15, WD=12.2 mm</li> <li>- Lens 20x/0.40, WD=10.7 mm</li> <li>- Lens 50x/0.55, WD=8 mm</li> <li>- Lens 63x/0.70, WD 2.6 – 1.8 mm, PH</li> <li>- Lens 20x/0.40, WD=6.9 mm, PH</li> </ul>	YES
15.	<p>Fluorescence:</p> <ul style="list-style-type: none"> <li>- Possibility of manual switching between incident light and fluorescence via optical splitter, without the need of light source reassembly</li> <li>- Fluorescence source: mercury lamp with power <math>\geq</math>100 W and lifetime min. 300 working hours</li> </ul>	<p>Fluorescence:</p> <ul style="list-style-type: none"> <li>- Possibility of manual switching between incident light and fluorescence via optical splitter, without the need of light source reassembly</li> <li>- Fluorescence source: mercury lamp with power =100 W and lifetime min. 300 working hours</li> </ul>	YES
16.	<p>Digital camera:</p> <ul style="list-style-type: none"> <li>- Color CMOS sensor, min. 1/2"</li> <li>- Resolution at least 2048x1536 pixels (3.1Mpx)</li> <li>- Pixel size min. 3.2 <math>\mu</math>m x 3.2 <math>\mu</math>m</li> <li>- Connection to PC via USB 3</li> </ul>	<p>Digital camera:</p> <ul style="list-style-type: none"> <li>- Color CMOS sensor, 1/2"</li> <li>- Resolution 2048x1536 pixels (3.1Mpx)</li> <li>- Pixel size 3.2 <math>\mu</math>m x 3.2 <math>\mu</math>m</li> <li>- Connection to PC via USB 3</li> </ul>	YES
17.	<p>PC with Software (SW):</p> <p>SW with options: setting camera parameters, setting and saving calibration for all lenses, live preview, saving and</p>	<p>PC with Software (SW):</p> <p>SW with options: setting camera parameters, setting and saving calibration for all lenses, live</p>	YES





	editing of saved images, inserting reference scale, labels, lines, arrows, basic distance measurements	preview, saving and editing of saved images, inserting reference scale, labels, lines, arrows, basic distance measurements	
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## Annex No. 2

### The Seller's bid in the extent it describes technical parameters of the Equipment

Microscope Leica DM2700 M

#### Stand

- Stand for incident and transmitted light
- Contrast methods:
  - For incident light – Brightfield (BF), Darkfield (DF), Polarization (POL), and Oblique coaxial illumination
  - For transmitted light – Brightfield (BF), Polarization (POL) and Phase contrast (PH)
- Manual coaxial 3-step focusing coarse/fine with the possibility of switching to ultra fine
- Ergonomically height-adjustable rubber focusing knobs
- Adjustable torque of focusing knobs
- Adjustable stop positions for stage movement in Z-axis (protection against damage of the sample, lenses, presetting Z-position, reproducibility Z-position of stage adjustment)
- Sample height up to 40 mm

#### Objectives revolver

- 5-positions, manual

#### Illuminator for incident light

- Fluorescence turret for up to 4 filter cubes
- Cubes for BF and DF - fixed
- Other cubes fastened using a quickclamping mechanism (easy to replace)
- Color-coded and centerable aperture, centerable field aperture
- Possibility of inbuilding of up to 2 color light filters
- Polarizer and Analyzer Slots
- Integrated oblique illuminating to highlight the topography of the sample surface
- Filter cubes: BF, DF, DAPI, FITC and Rhodamine

#### Light source

- High-performance LED for both incident and transmitted light
- Power equivalent to 100 W halogen bulb
- Constant color temperature 4500 K
- Switching between the incident and transmitted light on a stand of a microscope
- Continuous intensity adjustment



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### Stage

- Ultra-hard ceramics stage
- Telescopic XY stage control with adjustable torque and rubber surface
- Possibility of change to left-hand or right-hand control of the stage, directly by the user
- Detachable specimen holder with the possibility of one-handed glass insertion

### Condenser

- Condenser with coded aperture and a switchable top lens with NA min. 0.9
- 6 position disc for DIC prism, filter rings for DF, PH, individual rings are centerable
- Adjustable aperture
- Centerable condenser
- Second head with long working distance (15 mm) with NA 0.5 for using with heating stage

### Polarizing filters

- Rotary analyser 360°, 0.1° split (incident and transmitted light)
- Switchable polarizer, adjustable in 3 directions 0°, 45°, 90° (incident light)
- Swing out polarizer for transmitted light, 360° rotating with locking

### Tube

- Trinocular tube with observation angle 30°
- Adjustable interpupil distance
- Camera port with diameter of 19 mm faced upwards, positioned in the optical axis line
- 3 beam splitter position: 100%: 0%, 50% : 50%, 0% : 100% between eyepiece and camera port
- Duo documentation adapter for mounting on tube, with beam splitter 100%/0% and 0%/100%

### Eyepieces

- With magnification factor 10x
- Field of view diameter 25 mm
- Adjustable diopter correction
- Interchangeable plastic eyecups
- Possibility of observation of the sample with or without glasses

### Lenses semi-apochromatic, infinite, parfocal, surface anti-reflex layer

- Lens 2.5x/0.07 with working distance 12 mm
- Lens 5x/0,15 with working distance 12.2 mm
- Lens 20x/0.40 with working distance 10.7 mm
- Lens 50x/0.55 with working distance 8 mm
- Lens 63x/0.70 with working distance 2.6 – 1.8 mm, PH





- 20x/0.40 lens with working distance 6.9 mm, PH

#### Fluorescence

- Possibility of manual switching between incident lighting and fluorescence via optical splitter, without the need of light source reassembly
- Fluorescence source: mercury lamp with power of 100 W and lifetime min. 300 working hours

#### Digital Camera

- Color CMOS sensor 1/2"
- Resolution 2048 x 1536 pixels = 3.1 Mpx
- Pixel size 3.2  $\mu\text{m}$  x 3.2  $\mu\text{m}$
- Connect to PC via USB 3

#### PC + Software

- SW with options: setting camera parameters, setting and saving calibration for all lenses, live preview, saving and editing of saved images, various formats, inserting reference scale, labels, lines, arrows, basic distance measurement.



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