



INSTITUTE OF ATMOSPHERIC PHYSICS
CAS

Annex No. 4

PURCHASE CONTRACT

This purchase contract ("Contract") was concluded pursuant to section 2079 et seq. of the Act No. 89/2012 Coll., Civil Code ("Civil Code"), on the day, month and year stated below by and between:

Institute of Atmospheric Physics of the Czech Academy of Sciences

Registered office: Boční II 1401, 141 00 Praha 4
Company identification No: 68378289
Tax identification No.: CZ68378289
Represented by: doc. RNDr. Zbyněk Sokol, CSc., director
Bank details: Komerční banka a.s., Praha 1 (SWIFT/BIC: kombczppxxx)
Bank account No.: 19-9208360217/0100 (IBAN: CZ8901000000199208360217)
on the one side as the buyer ("**Buyer**")

and

[to be completed by the participant – company name]

Registered office: [to be completed by the participant]
Company identification No: [to be completed by the participant]
Tax identification No.: [to be completed by the participant]
Represented by: [to be completed by the participant]
Registered in: [to be completed by the participant]
Bank details: [to be completed by the participant]
Bank account No.: [to be completed by the participant]

on the other side as the seller ("**Seller**")

(The Buyer and the Seller are hereinafter jointly referred to as "**Parties**" and individually as "**Party**").

WHEREAS

- (A) The Buyer is a public contracting authority.
- (B) For the successful realization of the Project it is necessary to purchase the Object of Purchase (as defined below) in accordance with the act No. 134/2016 Coll., Public Procurement Act.
- (C) The Seller wishes to provide the Object of Purchase to the Buyer for consideration
- (D) The Seller's tender for the public contract entitled "**Supply of meteorological radar**" was selected by the Buyer as the most suitable.

IT WAS AGREED AS FOLLOWS:

I. BASIC PROVISIONS

- 1.1 Under this Contract the Seller shall hand over to the Buyer a **metheorological radar**, which shall meet requirements listed in Annex 1 (*Technical Description of the Offered Performance*) to this Contract ("**Object of Purchase**") and shall transfer to the Buyer ownership right to the Object of Purchase, and the Buyer shall take over the Object of Purchase and shall pay the Seller the Purchase Price (as defined below), all under the terms and conditions stipulated in this Contract.
- 1.2 Under this Contract the Seller shall also carry out following activities ("Related Activities"):
- a) to verify that the Object of Purchase meets all requirements stipulated in this Contract and adjust the Object of Purchase to the place of delivery, if necessary;
 - b) to elaborate and hand over to the Buyer operational and technical manual and software guide and other documents that are necessary for the proper takeover and use of the Object of Purchase in English language in electronic form in the extent specified in Annex 2 (*Technical Specifications*);
 - c) to handover the declaration of conformity of the Object of Purchase with the approved standards, if there are any;
 - d) to elaborate a list of particular items of the Object of Purchase for the purposes of control;
 - e) to provide training of four competent persons, (I.) hardware training for four persons and software training for six persons in the extent of at least 10 hours, all maintenance servicing will be shown by Seller, Buyer is entitled to get audio and video recordings; (II.) operator training in the extent of at least 8 hours which will be held after successful completion of Site Acceptance Test "SAT" at Observatory Milešovka;
 - f) ensure availability of spare parts for the radar system for period of years and ensure supply of spared parts for the radar for period of 7 years following the successful Site Acceptance Test;
 - g) to provide detailed description of required radar site (e.g. description of required power supply, network connection, radar base).
- 1.3 The Seller promises to the Buyer that if for the fulfillment of the requirements of the Buyer under this Contract or the proper operation of the Object of Purchase are necessary other deliveries and activities not mentioned in this Contract, the Seller shall procure such deliveries or shall carry out such activities at its own expense without any effect on the Purchase Price.

II. TIME AND PLACE OF DELIVERY

- 2.1. The Seller shall deliver the Object of Purchase and shall carry out Related Activities within twenty (20) weeks from the signature of this Contract.
- 2.2. The Buyer is responsible for shipping the Object of Purchase to the place of delivery.



- 2.3. The place of delivery is the following address: Institute of Atmospheric Physics of the Czech Academy of Sciences, Observatory Milešovka, Czech Republic.

III.

THE OWNERSHIP RIGHT

- 3.1 The ownership right to the Object of Purchase shall be transferred to the Buyer upon the signature of the Handover Protocol (as defined below) by both Parties.

IV.

PRICE AND PAYMENT TERMS

- 4.1. The purchase price for the Object of Purchase is [to be completed by the participant] CZK without value added tax ("VAT"), and with the VAT rate 21 % (if applicable in this case) is [to be completed by the participant] CZK ("Purchase Price").
- 4.2. The Purchase Price cannot be exceeded and includes all costs and expenses of the Seller related to the performance of this Contract. The Purchase Price includes, among others, all expenses related to the handover of the Object of Purchase and execution of Related Activities, costs of copyright, insurance, warranty service and any other costs and expenses connected with the performance of this Contract.
- 4.3. The Purchase Price may be changed only if:
- a) in the period between the conclusion of this Contract and the signature of the Handover Protocol the rates of VAT are changed (in such a case the new price for the Object of Purchase shall only reflect the new rate of VAT) or if
 - b) the change is done in accordance with the act No. 134/2016 Coll., Public Procurement Act.
- 4.4. The Purchase Price for the Object of Purchase shall be paid in CZK on the basis of a tax documents – invoices, to the account of the Seller designated in the invoice.
- 4.5. The Buyer shall realize payments on the basis of duly issued invoice within 21 days from its receipt. The invoice shall be considered to be paid for on the day when the invoiced amount is deducted from the Buyer's account on behalf of the Seller's account.
- 4.6. 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:
- a) name and registered office of the Buyer,
 - b) tax identification number of the Buyer,
 - c) name and registered office of the Seller,
 - d) tax identification number of the Seller,
 - e) registration number of the tax document,
 - f) scope of the performance (including the reference to this Contract),
 - g) the date of the issue of the tax document,
 - h) the date of the fulfilment of the Contract,

i) Purchase Price,

and must comply with the double tax avoidance agreements, if applicable.

- 4.7. In case that the invoice shall not contain the above mentioned information, the Buyer is entitled to return it to the Seller during its maturity period and this shall not be considered as a default. The new maturity period shall begin from the receipt of the supplemented or corrected invoice to the Buyer.

V. SELLER'S DUTIES

- 5.1. The Seller shall ensure that the Object of Purchase and Related Activities are in compliance with this Contract including all its annexes and applicable legal (e.g. safety), technical and quality norms.
- 5.2. During the performance of this Contract the Seller proceeds independently. If the Seller receives instructions from the Buyer, the Seller shall follow such instructions unless these are against the law or in contradiction to this Contract. If the Seller finds out or should have found out if professional care was exercised that the instructions are for any reason inappropriate or illegal or in contradiction to this Contract, then the Seller must notify the Buyer.
- 5.3. All things necessary for the performance of this Contract shall procure the Seller, unless this Contract stipulates otherwise.
- 5.4. The Seller is aware that the Buyer does not have at its disposal premises for the storage of packaging and, therefore, shall not store packaging of the Object of Purchase. The absence of original packaging cannot be an excuse for refusal of elimination of defects of the Object of Purchase.

VI. WARRANTY

- 6.1. The Seller shall provide a warranty of quality of the Object of Purchase for the period of 36 months. If on the warranty list or other document is the warranty period of longer duration, then this longer warranty period shall have priority over the period stated in this Contract.
- 6.2. The warranty period shall begin on the day of the signature of the Handover Protocol by both Parties. If the Handover Protocol lists any deficiencies, the warranty period shall begin on the day, which follows the day, in which the last deficiency was removed.
- 6.3. The Seller shall remove defects that occur during the warranty period free of charge and in the terms stipulated in this Contract.
- 6.4. If the Buyer ascertains a defect of the Object of Purchase during the warranty period, the Buyer shall notify such defect without undue delay to the Seller. Defects may be notified on the last day of warranty period, at the latest.



- 6.5. The Buyer notifies defects in writing via e-mail. The Seller shall accept notifications of defects on the following e-mail address: [to be completed by the participant]. The Seller shall confirm reception of the notification within 96 hours from the receipt of the notification.
- 6.6. In the notification the Buyer shall describe the defect and the manner of removal of the defect. The Buyer has the right to:
- ask for the removal of the defect by the delivery of a new Object of Purchase or its individual parts, or
 - ask for the removal of the defect by repair, or
 - ask for the reasonable reduction of the Purchase Price.
- The choice among the above mentioned rights belongs to the Buyer. The Buyer is also entitled to withdraw from this Contract, if by delivering the Object of Purchase with defects this Contract is substantially breached.
- 6.7. The Seller shall remove the defect within 14 days from its notification, unless Parties agree otherwise.
- 6.8. The Seller shall remove the defect within terms stipulated in this Contract even if the notification of the defect is in his opinion unjustified. In such a case the Seller is entitled to ask for reimbursement of the costs of removal of the defect. If Parties disagree on whether the notification of the defect is justified or not, the Buyer shall ask an expert for the expert's opinion, which shall determine whether the notification of the defect was justified or not. In the case that the expert consider the notification as justified, then the Seller shall bear costs of the expert's opinion. If the expert considers the notification to be unjustified, then the Buyer shall reimburse the Seller for verifiably and effectively incurred costs of removal of the defect.
- 6.9. Parties shall execute a protocol on the removal of the defect, which shall contain the description of the defect and the confirmation that the defect was removed. The warranty period shall be extended by a period of time that elapses between the notification of the defect until its removal.
- 6.10. In case that the Seller does not remove the defect within stipulated time or if the Seller refuses to remove the defect, then the Buyer is entitled to remove the defect at his own costs and the Seller shall reimburse these costs within 10 days after the Buyer's request to do so.
- 6.11. The warranty does not cover defects caused by unprofessional manipulation or by the failure to follow Seller's instructions for the operation and maintenance of the Object of Purchase.
- 6.12. The seller will guarantee availability of spare parts for at least 7 years from the signing of the agreement.
- 6.13. Parties exclude the application of Section 1925 of the Civil Code.

VII.

REPRESENTATIONS AND WARRANTIES OF THE SELLER

- 7.1. The Seller represents and warrants to the Buyer that
- has all the professional prerequisites necessary for the proper fulfilment of this Contract,



- b) is fully authorized to perform this Contract, and
- c) there are no obstacles on the Seller's side that would preclude him from the due performance of this Contract.

VIII. PENALTIES

- 8.1. If the Seller is in default regarding the delivery of the Object of Purchase, i.e. the Seller breaches its duty to perform this Contract in time and due manner, the Seller shall pay to the Buyer a contractual penalty in the amount of 0.1 % of the Purchase Price for every (even commenced) day of default.
- 8.2. If the Seller is in delay with the removal of the defect, the Seller shall pay to the Buyer a contractual penalty in the amount of 0.05 % of the Purchase Price for every (even commenced) day of default.
- 8.3. The Seller shall pay contractual penalties within fifteen (15) days from the day, on which the Buyer enumerated its claims. The payment of contractual penalties shall not affect the right of the Buyer to damages even to the extent to which such damages exceed the contractual penalty.
- 8.4. Total amount of contractual penalties that the Buyer is entitled to claim shall not exceed 30 % of the Purchase Price.
- 8.5. The Buyer is entitled to unilaterally set off claims arising from the contractual penalties against the claim of the Seller for the payment of the Purchase Price.
- 8.6. Parties exclude the Section 2050 of the Civil Code.

IX. RIGHT OF WITHDRAWAL

- 9.1. The Buyer is entitled to withdraw from this Contract without any penalties, if any of the following circumstances occur:
 - a) the Seller shall be in delay with the fulfilment of this Contract and such delay lasts more than two (2) months;
 - b) the Object of Purchase shall not fulfil the requirements stipulated in this Contract, in particular in Annex 1 (Technical Description of the Offered Performance) and Annex 2 (Technical Specifications);
 - c) the insolvency proceeding is initiated against the Seller; or
 - d) the Buyer ascertains that the Seller provided in its bid for the Public Procurement information or documents that do not correspond to the reality and that had or could have had impact on the result of the tendering procedure, which preceded the conclusion of this Contract.

X.



CONFIDENTIALITY

- 10.1. Parties shall not disclose information that shall become available to them in connection with this Contract and its performance and whose disclosure could harm the other Party. Duties of the Buyer ensuing from the applicable legal regulations remain unaffected.

XI. REPRESENTATIVES OF THE PARTIES

- 11.1. The Seller appoints following representatives for the communication with the Buyer:

In technical matters:

Name: [to be completed by the participant]

E-mail: [to be completed by the participant]

Tel.: [to be completed by the participant]

In contractual matters:

Name: [to be completed by the participant]

E-mail: [to be completed by the participant]

Tel.: [to be completed by the participant]

- 11.2. The Buyer appoints following representatives for the communication with the Seller:

In technical matters:

Name: Petr Pešice, Jana Minářová

E-mail: pesice@ufa.cas.cz, jana.minarova@ufa.cas.cz

In contractual matters:

Name: Marta Arazimová, Jana Minářová

E-mail: m.arazimova@ufa.cas.cz, jana.minarova@ufa.cas.cz

XII. FINAL PROVISIONS

- 12.1. This Contract is governed by the laws of the Czech Republic, especially by the Civil Code.
- 12.2. All disputes arising out of this Contract or out of legal relations connected with this Contract shall be preferable settled by a mutual negotiation. In case that the dispute is not settled within sixty (60) days, such dispute shall be decided by courts of the Czech Republic in the procedure initiated by one of the Parties.
- 12.3. The Seller bears the risk of changed circumstances within the meaning of Section 1765 of the Civil Code.
- 12.4. The Seller takes into account that the Buyer is not in relation to this Contract an entrepreneur, nor the subject matter of this Contract is connected with the business activities of the Buyer.
- 12.5. The Seller is not entitled to set off any of its claims or his debtor's claims against the Buyer's claims. The Seller is not entitled to transfer its claims against Buyer that arose on the basis or in connection with this Contract on third parties. The Seller is not entitled to transfer rights and duties from this Contract or its part on third parties.
- 12.6. All modifications and supplements of this Contract must be in writing.



- 12.7. If any of provisions of this Contract are invalid or ineffective, the Parties are bound to change this Contract in such a way that the invalid or ineffective provision is replaced by a new provision that is valid and effective and to the maximum possible extent correspond to the original invalid or ineffective provision.
- 12.8. If any Party breaches any duty under this Contract and knows or should have known about such breach, it shall notify it to the other Party and shall warn such Party of possible consequences of the breach.
- 12.9. This Contract is executed in four (4) counterparts and every Party shall receive two (2) counterparts.
- 12.10. An integral part of this Contract is Annex 1 (Technical Description of the Offered Performance) [to be completed by the participant in accordance with all the tender conditions] and Annex 2 (Technical Specifications) [corresponds to the Annex 1 of the tender documentation, to be completed by the Buyer within the final contract conclusion] In case of any discrepancy between the provisions of this Contract and the provisions of Annex 1 (Technical Description of the Offered Performance) the provisions of this Contract shall prevail.
- 12.11. This Contract shall be valid and effective on the date of the signature of both Parties.

In Prague, on.....

In [to be completed by the participant], on [to be completed by the participant]

.....

.....

for the Buyer
doc. RNDr. Zbyněk Sokol, CSc.,
director

for the Seller
[to be completed by the participant]
[to be completed by the participant]



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ANNEX NO. 1

TECHNICAL DESCRIPTION OF THE OFFERED PERFORMANCE

[to be completed by the participant in accordance with all the tender conditions]

ANNEX NO. 2

TECHNICAL SPECIFICATIONS

The Contracting Authority requires supplying the equipment which complies with the following minimum technical parameters:

Delivery specifications:

The delivery must include a meteorological radar (hereinafter the "**radar**") located at the Observatory Milešovka of the Institute of Atmospheric Physics of the Czech Academy of Sciences, Czech Republic. Radar must be operating in a fully unattended and remotely controlled regime from the workplace of the Institute of Atmospheric Physics of the Czech Academy of Sciences in Prague.

The protection against lightning must be part of the delivery either in passive or active form.

The delivery must include computer server to run applications installed at the Observatory Milešovka; further supply of appropriate computer hardware and software for the radar to monitor and control various components of the radar; and software for signal processing and evaluation of radar measurements; installation and testing work (installation of the radar station, acceptance tests, software configuration, supply of the appropriate documentation for the radar; appropriate training of radar operators).

Further specifications of the public tender are specified lower in the technical parameters and in the proposal of purchase contract, which is annexed to this tender documentation.

The following technical requirements of the equipment are considered as minimum requirements that must be fulfilled. In case, when the bidder will offer an equipment which does not conform to the technical conditions specified below or an equipment which does not contain all the components described below, the bidder will be excluded from the tender on the basis of failure to comply with the terms and conditions specified by Contracting Authority tender.

The Contracting Authority requires that the equipment was brand new, fully functional and complete.

Technical parameters:

A) Radar system - General characteristics:

- A fully Doppler radar system operating in the X-band (8-12 GHz) in pulse mode or FMCW must be delivered;
- Radar must allow dual polarimetric measurements (STAR; Simultaneous Transmission And Reception);
- Radar must perform digital signal processing starting from the intermediate frequency;
- Data output and consumer products must be in digital form;
- Technical parameters of the radar must fulfil the detection of precipitation (rainrate above 3 mm/h) in the range of 50 km;
- Radar must allow to exclude certain areas in horizontal as well as vertical direction from the scanned area;
- The supplied equipment will meet the EMC.

B) Construction of the radar system:

- All components of the device must be brand new and their age should not exceed 12 months at the date of the completion of Site Acceptance Test (SAT). Contract Authority expressly notes that prototypes and remanufactured components of the older equipment are not permitted;
- Maximum input power supply of all equipment ensuring 24-hour operation of the radar cannot exceed 1 kW;
- Equipment must be adapted to the supply network, which comply with DIN EN 50160. The supply voltage is 230 V 50 Hz, single phase connection;
- All electrical equipment must meet the following legislation or regulations:
 - 2014/30 / EU;
 - IEC 61000-4-5: 2014;
 - IEC/EN 62311 Ed1.0:2007;
- Total size of all radar boxes does not exceed 2000 mm in height, 2000 mm in width and 2000 mm in depth;
- Weight of the antenna unit with radome does not exceed 200 kg;
- Radar cabinets and installed technology must meet the operating temperature range of -20°C to +50°C;
- Connectors must be differentiated so that they cannot be connected by mistake;
- The connectors must be capable of withstanding repeated engagement and disengagement (in the framework of service requirements) without damage and degradation;
- All connectors and measuring points must have granted access, which must be described in the technical documentation;
- All components of radar including connectors, cables, circuit boards, etc. must be clearly identified and described - Client requires that all components are documented in English;
- After an interruption of the power supply system shall allow automatic sequential switching (soft start) and start of operational measurement;
- Safety precautions - all the equipment which could be damaged by inappropriate handling or which endanger the health of operators, must include security protection (safety interlock);
- Noise level of radar cabinets should not exceed 70 dBA when measured one meter in front of cabinets. Supplier at SAT performs the necessary measurements and prepares a report of the measurements;
- Radar must be designed for continuous 24-hour operation;
- Manufacturer's recommended maintenance shutdowns must not cause outages of radar measurements exceeding 2% of the total operational time of measurement, i.e. maximum of 168 hours per year;
- The supplier must guarantee availability of spare parts for at least 7 years from the signing of the contract;
- The Contracting Authority requires to deliver service tools that are required to access all measuring points and forced replacement of any components;



- Radar must contain a "network power switch" which enables remote switching on and off of critical blocks of the radar via commands transmitted over a data network.

C) Transmitter:

- Transmitter must be semiconductor or of type RF magnetron (minimum life time of 50,000 hours);
- Transmitting frequency must be in the X-band and at least three frequencies within the X-band must be offered by the Supplier;
- In case of delivery of a FMCW solution, the transmitter power must be at least 4 W and the stability of the transmitted power must be 0.2 dB in the normal operating conditions and time interval of one month;
- Length of the transmitted pulse must be at least in the range of 0.5 to 20 μ s;
- Repetition rate (pulse repetition frequency, PRF) for pulse mode must be user-adjustable within 1-2 kHz. It must be possible to switch the frequency by using software settings within the measurement scenarios without hardware intervention.

D) Antenna:

- Antenna must be parabolic with a gain of at least 30 dBi;
- Beam width should be within 3°;
- The diameter of antenna without radome does not exceed 1500 mm;
- Cross-polarization isolation of the antenna must be greater than 30 dB;
- Rotation unit must allow horizontal scanning in the range of 0 to 360 degrees and vertical scanning in the range of -1 to 90 degrees
- Antenna rotation speed for azimuth must be at least 1 to 10 rpm
- Antenna rotation speed for elevation must be at least 1 to 5 rpm
- The supplier shall define a safe distance for work and the incidence of people from all devices that emit radiation exposure.

E) Receiver:

- Radar delivery must contain a digital receiver (full digitization to an intermediate frequency, at least 14 bit A / D converter);
- The receiver must allow polarimetric measurements;
- Dynamic range must be more than 70 dB including pulse compression gain. The receiver must be low noise - the noise figure must be 3.5 dB at most;

F) Signal Processor:

- Signal processor must ensure evaluating at least the following quantities:
 - reflectivity factor Z_h ;
 - radial Doppler velocity V ;
 - width of the Doppler spectrum W ;
 - cross polarization difference;
 - differential radar reflectivity factor Z_{dr} ;
 - specific differential phase KDP;
 - rainfall intensity (mm/h);
- Range resolution of the radar data must be below or equal to 100 m;



- Number of averaged samples (pulses) for evaluating the radar parameters in the radar beam must be adjustable in the range of at least 20-512;
- Data resolution of output radar data must be at least 8bit (256 levels), reflectivity data in increments of at least 0.5 dBZ, and radial velocity data should linearly cover Nyquist range of velocity.

G) PC software (SW) and hardware (HW):

- PC SW and HW must be delivered at least in the following configuration including:
 - a computing server with installed software for remote interactive control and monitoring of radar equipment as well as software for administration and management of regular radar measurements including radar data processing and measured data sending;
 - Storage capacity for archiving all radar measured data files must cover a period of 6 months at least;
- SW licenses for any software necessary for running the radar measurements and specifically for remote interactive control and monitoring of radar must be delivered.

H) SW for both local and remote interactive control and monitoring of the radar:

- SW for manual control and remote monitoring of the radar must allow the following functions at least:
 - switching off and on of individual parts of the radar;
 - setting of measurement parameters and signal processing;
 - setting of direction in horizontal and vertical plane;
 - displaying actual measured data;
- All errors must be logged in text files. Description of the format of these logged files must be available.

I) SW for creation of advanced products:

- Software for creating advanced products must allow at least the following functions:
 - processing of data from the radar;
 - the possibility of generating products from all evaluated radar measurements.

J) Backup Power Supply UPS:

- Radar system must be able to operate via power supply by the standard UPS.

K) Requirements for spare parts for radar:

- The supplier is obliged to ensure the spare parts supply for a period of 7 years following the successful SAT.

L) Documentation Requirements:

- Contracting Authority declares that all documentation for the device must be in English and delivered in printed and electronic form (including schematics). It must contain at least the following elements:
 - Operator manual - contains instructions and operations necessary for complete control of radar;
 - instructions for basic system settings and data processing and given specific values of important parameters;



- operation workflow for control of the system and the accuracy of measurements;
- Technical manual - containing a detailed description of the individual facilities and their maintenance;
 - description of the installation, setup, operation, operational instructions, periodic maintenance and periodic diagnosis;
 - description of the solution of typical problems;
- Software Guide - containing a description of the programs and data algorithms for signal processing, data collection, product formation and radar control;
 - complete description of the features, structures, control environment, flow and organization of data;
 - description of data processing algorithms for research purposes;
 - detailed description of the file formats for crude, product, control and auxiliary data so that it can be handled by own software;
 - interface description of individual software modules;
 - in case of modification of the software, the documentation must be updated;
- A draft copy of all documentation in both printed and electronic form will be delivered to the Contracting Authority at least one month before the SAT. The final version of the document in three hard copies and electronic form must be received prior to the installation of the radar;
- Approval of the documentation will be part of the approval process;
- Contracting Authority reserves the right to reproduce the entire technical documentation or part thereof in electronic and paper form for internal use;
- Contracting Authority will be entitled to require the update of documentation that occurs:
 - about the same time as any change in hardware or software;
 - in the case of its evident inaccuracy or incompleteness, to which the Contracting Authority notifies the applicant.

M) Requirements for Site Acceptance Test (SAT):

- The supplier will provide the results and official protocol of Factory Acceptance Test (FAT);
- The supplier shall ensure the successful completion of SAT:
 - supplier performs all measurements of transmitter and receiver (transmitted power, frequency, intermediate frequency, receiver, LNA gain, MDS);
 - supplier will check the functionality of all software components;
- A 48-hour trouble-free operation of the radar, simulation of normal operating conditions including expected external infrastructure problems (e.g. power interruption or failure data networks) will be part of the SAT;
- The supplier is obliged to provide a list and description of all basic operations and measurements performed during the SAT.

N) Installation Requirements:

- The supplier must ensure the assembly and installation of the radar at the Observatory Milešovka. The survey of the physical space available for radar installation for the smooth transport and installation of individual components is the responsibility of the supplier. Contracting Authority warns that for the transport of the equipment to the Observatory Milešovka a cargo lift with a load capacity of only 250 kg can be used and access by persons performing installation is only possible by hike to the observatory;
- The supplier must provide a detailed description of requirements of the radar site (e.g. power supply, network connection, radar base).