

**Výzkumný a zkušební letecký ústav, a.s.****Beranových 130, 199 00 Praha - Letňany**

OR : Městský soud v Praze, oddíl B, vložka 446

IČO: 00010669 DIČ: CZ00010669

Bankovní spojení

**OBJEDNÁVKA**

Číslo : OV4230204/2

Zakázka : Z40320

Středisko : 4000

Počet listů : 1

**PEKASAT SE****U Leskavy 764/20****625 00 Brno, Starý Lískovec**

Vyřizuje / linka:


**Praha - Letňany****20.03.2023**

P.č.	Množství / M.j.	Specifikace	Cena bez DPH
1	1,00 ks	<p>Objednáváme u vás:</p> <p>Analysis of data associated with the communication subsystem of the satellite and preparation of documents for the registration of frequency bands.</p> <p>Termín dodání : 31.03.2023 Platební podmínky : bankovním převodem Dodací podmínky : dodat na adresu firmy /7.00 - 13.00 h/ Na daňovém dokladu (dodacím listu) uvádějte prosím č. naší objednávky. Žádáme Vás o potvrzení přijaté objednávky včetně termínu dodání a ceny. V případě vystavení zálohové faktury Vás žádáme o zaslání daňového dokladu o přijaté platbě (dle zákona o DPH č.235/2004 Sb., §26).</p> <p>FAKTURY PROSÍM ZASÍLEJTE EMAILEM NA: [REDACTED]</p> <p>VZLÚ je povinným subjektem dle zákona č. 340/2015 Sb. o registru smluv. Smlouva/objednávka, mimo části podléhající obchodnímu tajemství, bude v souladu s tímto zákonem uveřejněna v registru smluv. Smlouva/objednávka nabývá platnosti dnem podpisu oběma smluvními stranami a účinnosti dnem uveřejnění v registru smluv. Objednatel se zavazuje tuto smlouvu/objednávku bez zbytečného odkladu po jejím podpisu oběma smluvními stranami, zaslat správci registru smluv k uveřejnění</p>	110 000,00 Kč
Razítko a podpis :		[REDACTED]	Razítko a podpis dodavatele :
		[REDACTED]	[REDACTED]

Telefon :

Fax:

e-mail:



LLOYD'S REGISTER - LRQA  
ISO 9001



**SERVICE & PRICE OFFER FROM PEKASAT SE**

Brno, 24.03.2023

Attn: [REDACTED]

Director of Space Division,  
VZLU, Czech Aerospace Research Centre

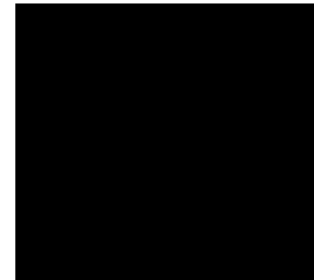
Dear Sir,

below you will find our service offer with pricing, in order to assist you with planning and realization of the VZLU Ground control station project and necessary regulatory procedures w.r. to the CTO and ITU. I hope you will find it interesting.

With respect to our discussion and analysis of your needs, we would like to offer you the "Analysis of data associated with the communication subsystem of the satellite and preparation of documents for the registration of frequency bands" at a firm-fixed price of 110 000 CZK excl. VAT. Above-mentioned analysis are relatable to the locality of Vlkoš u Kyjova.

Looking forward to working with you.

Best regards,



CTO, PEKASAT SE

## SERVICES OFFERED BY PEKASAT SE

### Technical support, Consultancy, Assistance

- Design of the ground segment systems
  - Infrastructure, antenna system, RF and IT equipment w.r. to the customer needs
  - Evaluation and recommendations about technology currently used, available manufacturers and technology providers
  - Link budget calculations
- Analyses of existing satellite networks
  - PEKASAT SE has full access to the ITU and WTA databases
  - Detailed analysis of the particular satellite network, networks of one operator or an entire administration (country)
  - Assessment of real state of the satellite network and its parameters
- Risk assessment of harmful interference
  - Calculation of interference and assessment of its impact on the quality of received or transmitted satellite signal
  - Recommendation of parameters for transmitting and receiving part in order to avoid interference with the existing communication systems
  - Own calculation software based on the current knowledge on signal propagation
- Selection of the suitable geostationary orbital position for a new communication satellite
  - Limited number of usable orbital positions and frequency spectrum
  - Selection of frequencies and corresponding service areas covered by satellite signal
  - Ensuring of minimal interference among the new satellite and existing systems
  - Higher signal quality, more possibilities of utilization of the radio frequencies
  - Cost effective coordination process
- Application for a new satellite network (LEO, MEO, GEO)
  - All planned satellite network shall be registered at the ITU
  - Application contains expected operation parameters
  - Applications in accordance with the Radio Regulations and ITU Recommendations
- Filing an application for Frequency coordination
  - Mandatory publications prior to coordination
  - The application should be filled up in a manner which guarantee favourable findings from the ITU
- Representation in communication with the ITU
- Technical support during frequency coordination with other satellite operators
  - Negotiation with the other satellite operators about conditions for operation of satellites without mutual interference
  - Evaluation of applicable frequencies, service areas, power levels, polarization etc.
  - Preparation of data and documents for coordination meeting
  - Consultation of negotiating strategy



**PEKASAT**

- Support during the coordination meeting (calculations, information and strategy update)
- Notification of the successfully coordinated frequencies to the ITU
- Preparation of contracts, agreements and other related documents for coordination
  - Before launch of a new satellite, it is necessary to ensure that the new satellite will not interfere with existing systems and vice versa
  - Approval of the other operators is required
  - Possibility to conclude agreement on the level of administrations (countries)
- Administration of the ITU Circular (IFIC - International Frequency Information Circular)
  - Biweekly published ITU Circular dealing with the satellite communication
  - Necessity to monitor new satellite networks and raise objections against those which could cause interference
  - Calculation of interference risks
  - Administration of comments regarding to newly published networks
  - Monitoring of changes and trends in the area of satellite communication

### **Business planning**

- Performing and evaluating market studies, forecasts, analyses etc.
- Pitch deck & Business plan preparation
- Project budget preparation focused on technology costs
- Project timeline creation
- Market propagation

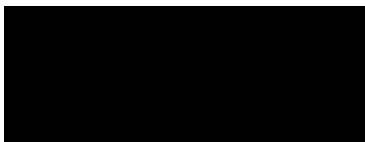
### **PRICING AND BUSINESS CONDITIONS**

Standard hour rate: 1300 CZK/hr. excl. 21% VAT

In case of a larger volume of work we can offer you individual pricing as firm-fixed price per package/phase/milestone.

### **CONTACT INFORMATION**

In business matters please contact:



In technical matters please contact:

