

Service description for the provision of the service/delivery:

Provision of technical consulting services related to vibration-based downhole tools and their conceptual design, acquisition of potential project partners and market analysis

Aktenzeichen:
02402/5030/2

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Cost center:	2936 5030
CPV-Code https://www.cpvcode.de/	71350000-6
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Content

1	General	3
1.1	Brief Introduction to TU Clausthal	3
1.2	Subject of the Tender (Summary)	3
1.3	Information on the Contracting Authority	4
1.4	Performance Location	4
1.5	Performance Deadline	4
1.5	Contact Points	4
1.6	Terms of the Procurement Procedure	5
2	General Terms and Conditions of the Tender and Contract	5
2.1	Tender Documents / Further Information	5
2.2	Tender Specifications	6
2.3	Language	6
2.4	Prices	6
2.5	Terms of delivery	7
2.6	Delivery/Distribution/Compensation for Delay	7
2.7	Payment Conditions	7
2.8	Additional Contract Conditions	8
2.9	Place of Jurisdiction	8
3	Service Details / Technical Requirements	9
3.1	Service Description	9
3.2	Scope of Work (SoW)	9
3.3	List of Activities with Manpower Structure	10
3.4	Methodology / Strategy proposal	11
3.5	Proposed Team and required qualifications	11
3.6	Risk Register	11
3.7	Deliverables	12
3.7.1	KPI Summary and acceptance criteria for deliverables	12
3.8	Reporting Plan	12
3.9	References	12
4	Evaluation Criteria	13
4.1	Evaluation Scheme	14
5	Further Declarations	15

1 General

1.1 Brief Introduction to TU Clausthal

Regionally rooted, globally recognized - that's the Technical University of Clausthal. The education at our traditional university is highly valued by national and international companies. Young people enjoy studying in Clausthal in a different way, namely in a personal atmosphere and with practical teaching conditions.

Research and teaching are conducted in Clausthal in the fields of energy and raw materials, natural and material sciences, economics, mathematics, computer science, mechanical engineering, and process engineering.

Our principle is the close collaboration of natural, engineering, and economic sciences within an application-oriented research ecosystem. This is organized in five innovative research centers: the Research Center for Energy Storage Technologies, the Clausthal Center for Materials Science, the Simulation Science Center, the CUTECH Clausthal Environmental Technology Research Center, and the Drilling Simulator Celle - TU Clausthal.

With around 3,000 students and around 1,100 employees, the TU Clausthal is one of the most important economic factors in the West Harz. The TU's excellent global reputation is regularly reflected in its top positions in rankings such as the CHE University Ranking

1.2 Subject of the Tender (Summary)

The subject of this tender is the provision of technical consulting and engineering advisory / development services for the OptiViB project, "Optimierte Langzeitsicherheit der Bohrlochverfüllungen durch Vibration-unterstütztes Zementieren", carried out at the Institute of Subsurface Energy Systems (ITE), TU Clausthal.

The contracted service provider shall support the project with expert knowledge related to vibration-assisted cementing technologies, vibration-based downhole tools, conceptual tool development, technical specification preparation, market analysis of potential manufacturers, and the identification and acquisition of potential industrial or institutional project partners.

Project Background

Long-term integrity of wellbore sealing systems is of increasing importance for plug and abandonment operations, subsurface storage applications, CO₂ and hydrogen storage, and the safe disposal of radioactive waste. Insufficiently sealed boreholes may act as potential migration pathways for gases, fluids, or contaminants. Therefore, improved cement placement and sealing quality are essential for reducing permeability, preventing leakage, and ensuring long-term wellbore integrity.

Previous laboratory investigations during the first phase of this project at TU Clausthal have shown that the application of vibration during cement placement can improve mud displacement, cement distribution, bonding between cement and casing or rock, and selected mechanical properties of the hardened cement system. However, further systematic investigation is required to quantify the relevant influencing parameters and to transfer the technology towards downhole-representative and eventually field-applicable conditions.

Project Description

The OptiViB project investigates the use of vibration-assisted cementing to improve the long-term sealing quality of wellbore plugs and annular cement sheaths. Phase II focuses on the systematic evaluation of vibration principles, including axial and radial vibration, the modelling of vibration energy transfer in drilling fluids and cement slurries, and the development of experimental and theoretical foundations for future scale-up.

The tendered services are intended to support Phase II and prepare the transition towards Phase III. This includes technical advisory services on vibration concepts, support in the conceptual pre-design of

a full-scale electric or electro-hydraulic pilot vibration tool, preparation of technical specifications for a future prototype tender, acquisition of potential project partners, and a market study identifying suitable suppliers, expected costs, development times, manufacturing durations, and delivery schedules.

The objective of the contracted services is to provide the technical and market-related basis for the development of a vibration-based downhole tool concept suitable for future prototype development and full-scale testing.

1.3 Information on the Contracting Authority

The contracting authority and contracting partner is the Technical University of Clausthal (TUC), represented by the President.

Technische Universität Clausthal
Adolph-Roemer-Str. 2a,
DE-38678 Clausthal-Zellerfeld

The executive body is the Clausthal University of Technology,
represented by the

Institute of Subsurface Energy Systems
Agricolastraße 10,
DE-38678 Clausthal-Zellerfeld

1.4 Performance Location

The performance will take place in a hybrid format, including on-site reviewing meetings at the Institute of Subsurface Energy Systems and remote communication channels.

Delivery address:

Technische Universität Clausthal
Institute of Subsurface Energy Systems
Agricolastraße 10,
DE-38678, Clausthal-Zellerfeld

1.5 Performance Deadline

The service contract is scheduled for a total duration of 16 months and shall run until December 2027.

1.5 Contact Points

Communication may only be carried out electronically via the portal „<https://www.dtv.de>“.

1.6 Terms of the Procurement Procedure

Publication	From	To	Time
Date of dispatch of the notice	17.07.2026		
Deadline for questions for clarification		24.07.2026	2:30 pm CET
Answering questions for clarification received in good time		31.07.2026	3:00 pm CET
Offer deadline		18.08.2026	11:00 am CET
Opening of offers		18.08.2026	11:00 am CET
Award/binding period		15.09.2026	

2 General Terms and Conditions of the Tender and Contract

2.1 Tender Documents / Further Information

The tender documents will be made available for download on the "German Procurement Portal" website. Bidders can register for free. It is the bidder's responsibility to inform themselves about the current status of the procurement procedure and to request any missing documents if necessary.

The bidder who wishes to submit an offer is obliged to regularly retrieve information on changes or clarifications of the tender documents from the website:

„<https://www.dtv.de>“

Clarification questions are to be submitted in writing via the portal and will only be answered via the portal. An offer will only be considered if the bidder has taken into account all published information in their offer. Technical disruptions in accessing the portal are to be reported to the contracting authority immediately by email via the above-mentioned contact person, so that everything necessary can be arranged. A complete update of the tender documents by supplementing the performance description will not be carried out.

Each offer is to be submitted in electronic form exclusively on the platform "<http://www.dtv.de>" by **18.08.2026, 11:00 am CET** in German or English language.

2.2 Tender Specifications

Each bidder may submit only one bid.

Important Note:

The offer must be submitted in the same order – as a single PDF file – following the structure set out in the tender documents (1–11):

1. Formless letter of the bidder with date and signature
2. Invitation to submit an offer (EU tender)
3. Offer (VgV)
4. Bidder's conditions for the award of services (EU-wide)
5. Additional contract conditions of the State of Lower Saxony
6. Own statements
 - a. At the request of the bidder - can be submitted voluntarily the "Uniform European Declaration of Intent (EEE)". The declaration of intent can be created under the following link and attached to the offer by the bidder:
<https://uea.publicprocurement.be/gdpr>
 - b. Should the bidder not submit the "Uniform European Declaration of Intent (EEE)", the bidder is to fill in the attached form "Declaration for non-qualified companies in the following procedure". Companies that are prequalified are to submit a corresponding proof/access, so that the contracting authority can view the stored documents.
 - c. Statement on § 4 paragraph 1 NTVergG
7. Performance description
8. Evaluation schema
9. Further own statements with date, signature, and company seal
10. References
11. Other

2.3 Language

The bidder must submit its bid, including all attachments and supporting documents, in German or English. All correspondence with the client must be conducted in German or English. The language of the contract and negotiations is German, and in the event of discrepancies in the wording, the German documents shall be binding.

2.4 Prices

The total contract value must not exceed the maximum amount of 220.000,00 Euro gross, including all incidental and ancillary costs (maximum price). All prices shall be stated in Euro.

The maximum allowable remuneration rates (excluding statutory VAT) are:

- €80.00 per hour for Junior Consultants
- €150.00 per hour for Senior Consultants
- For business trips and project meetings, a lump-sum compensation of €2,500.00 per meeting shall apply. The lump sum includes all travel-related and incidental expenses, including transportation costs, accommodation, parking fees, and daily allowances.

The listed hourly prices include all costs incurred by the bidder for the services to be provided (e.g. costs for administrative management, project coordination, and secretarial work), as well as state taxes, duties, and fees payable as legal foundation at the time of contract award. Accordingly, the listed prices include all incidental costs (such as telecommunications costs, photocopying etc.) incurred by the bidder.

VAT (Value added tax) is excluded. The hourly rates stated in the payment model are net prices and are subject to the applicable statutory (19%) VAT.

The bidder assumes responsibility for the completeness of the conditions offered in the list of services. This means, that services that necessarily arise from the requested items must be included in the bidder's calculations, even if they are not explicitly mentioned in the list of services or the service description.

2.5 Terms of delivery

The delivery is to be carried out free of charge and insured (**DPU**) in accordance with the Incoterms 2020 and, in the case of imports from outside the European Union, in accordance with DDU (delivered duty unpaid / delivered duty unpaid) to the installation site (see 1.4 Performance Location). The costs for this are to be calculated in the offer price.

In the case of deliveries from a third country, the Technical University of Clausthal is to pay the taxes itself and to separate them.

2.6 Delivery/Distribution/Compensation for Delay

The delivery date is to be entered by the contractor.

WP1	Delivery Date:	Signature/Company Seal
WP2	Delivery Date:	Signature/Company Seal
WP3	Delivery Date:	Signature/Company Seal
WP4	Delivery Date:	Signature/Company Seal
WP5	Delivery Date:	Signature/Company Seal

If the agreed-upon latest delivery date is not met, the contractor is to pay the contracting authority a lump sum for compensation for delay of 0.5% of the contract value per completed calendar week.

The lump sum for compensation for delay is limited to 10 weeks. After this period, the contracting authority is entitled to reject the performance. If the contracting authority exercises its right of withdrawal, the payments made and their interest as well as the lump sum for compensation for delay for 10 weeks are due immediately.

If the delay is not due to the contractor's fault, the above provisions do not apply.

In addition to the above provisions, the contracting authority has no further rights or claims in the event of delay, unless the contractor acts intentionally.

2.7 Payment Conditions

Upon proper delivery or completion of the individual work packages, as evidenced by a certificate of performance (or similar document), and acceptance by ITE (Institute of Subsurface Energy Systems), the contractor must submit an invoice, on the basis of which payment will be made by Clausthal University of Technology within 14 days.

2.8 Additional Contract Conditions

The additional contract conditions of the State of Lower Saxony apply. The bidder's general terms and conditions do not apply and may not be stated.

We explicitly point out that, in accordance with § 57 VgV paragraph 1 no. 3, no changes or additions to the contract documents are to be made. This is the case, for example, if the bidder's own general terms and conditions are attached and lead to exclusion from further procedure.

Pursuant to § 56 (2) of the VgV, the contracting authority is not required to request additional documents. We therefore wish to point out that bids must include all required documents, statements, and complete information.

Provided that the tender process is carried out in Q3 2026, the mentioned work packages in section 3.1 are to be carried out before the end of contract without delay. The course of their execution as well as the deliverables have to be approved by ITE.

Subsequently, ITE reserves the right to discontinue the contracted activities during the duration of the contract if, in its view, the contractor does not carry out the execution of the work packages in its agreed scope. In this case, the number of hours carried out prior to such termination will be compensated.

2.9 Place of Jurisdiction

The place of jurisdiction is Clausthal-Zellerfeld, Germany.
The law of the Federal Republic of Germany shall apply exclusively

3 Service Details / Technical Requirements

3.1 Service Description

The contract concerns technical consulting and engineering advisory services.

The bidder shall enclose a full proposal addressing all the points defined in chapter 3, starting with the scope of works.

3.2 Scope of Work (SoW)

The subcontracted consultancy company (bidder) shall provide the following services (as work packages) as a minimum:

- **WP 1:** Vibration Type - Technical Advisory of Vibration Concepts, Selection and Modeling
 - Assistance with qualitative and, where feasible, quantitative evaluation of different vibration concepts (radial and axial vibrators).
 - Assistance with the theoretical modelling of vibration tools (Evaluation criteria, critical parameters, etc.).
 - Within the project framework, following energy transfer models are being included:
 - Vibration Source-to-Fluid Energy Transfer
 - Energy Propagation and dissipation within the Fluid
 - Structural Energy Losses into the surrounding boundaries
 - Assessment and advice on results from existing or ongoing test programs involving measurement and evaluation of vibration energy transferred through fluids in a contained boundary.
 - Provision of external expert advisory services focusing on:
 - State-of-the-art vibration technologies
 - Test and experimental setups
 - Physical measurement methods of vibrations in fluid media
 - Instrumentation concepts, calibration procedures, and sensor placement strategies
 - Technical meetings with stakeholders and experts.
- **WP 2:** Pilot Vibrator Pre-Design (Advisory on development of Full-Scale Electric Or Electro-Hydraulic Tool)
 - Input and technical support for the mechanical and functional dimensioning of a test vibration setup based on results of ongoing pilot tests at ITE, TU Clausthal.
 - Conceptual design ideas and suggestions suitable for subsequent detailed engineering.
 - Technical feasibility assessment of a proposed full-scale pilot vibration tool based on pilot-test results and conceptual ideas.
- **WP 3:** Preparation of Technical Specifications for a Pilot Vibrator Tender
 - Definition and proposal of the technical specifications for the full-scale vibration tool prototype.
- **WP 4:** Acquisition of New Partners
 - Identification and active outreach to potential industrial or institutional partners to accelerate and enable development of Phase II and execution of Phase III of the project.
 - Target partners shall be companies or entities involved with downhole completion tools and services, plug and abandonment or final waste deposition technologies.
 - Documentation of all contact attempts and interactions (a minimum of 5 (five)).
- **WP 5:** Market Study
 - Execution of a market study for linear electric vibration motor tools in parallel with the technical specification activities.
 - Identification of potential prototype suppliers with relevant technical capabilities.
 - Estimation of expected costs, design lead times, manufacturing durations, and delivery schedules with third party contractors and suppliers (as per pilot-design).

3.3 List of Activities with Manpower Structure

The following table is to be completed by the bidder and should specify the proposed number of hours for each work package. The hourly breakdown provided in the table will serve as the basis for invoicing. The specified number of hours may be adjusted according to the actual scope of activities, provided that such adjustments are agreed upon in advance between ITE, as the owner, and the consulting firm, as the contractor, and that the total number of hours offered is not exceeded.

Translated with DeepL.com (free version) The bidder assumes responsibility for the completeness of the conditions offered in the list of services. This means, that services that necessarily arise from the requested items must be included in the bidder's calculations, even if they are not explicitly mentioned in the list of services or the service.

The minimum number of hours to be allocated in the project are:

- Junior personnel: 700 hours
- Senior personnel: 600 hours

All fields are to be completed in full and price statements are to be made in net terms (without VAT).

Pos.	Estimated time [hr] / amount	Unit price [€]	Personnel / minimum expected time [% of total time]
WP 1	Vibration Technology Advisory		
1.1	[Hours here]	€	Senior / 45%
1.2	[Hours here]	€	Junior / 15%
WP 2	Pilot Vibrator Pre-design Consultancy		
2.1	[Hours here]	€	Senior / 30%
2.2	[Hours here]	€	Junior / 70%
WP 3	Tech. Specifications: Prototype Tendering		
3.1	[Hours here]	€	Senior / 5%
3.2	[Hours here]	€	Junior / 5%
WP 4	Acquisition of New Project Partners		
4.1	[Hours here]	€	Senior / 15%
4.2	[Hours here]	€	Junior / 5%
WP 5	Market Study		
5.1	[Hours here]	€	Senior / 5%
5.2	[Hours here]	€	Junior / 5%
WP 6	Cost lump sum for work trips (per meeting and person incl. travel expenses, parking fees, daily allowance, overnight stays etc.)		
6.1	[amount here]	€	Meetings at ITE, TU Clausthal
	Net price	Euro	
	Plus VAT. ¹	Euro	
	Subtotal	Euro	
	less. discount _____ %	Euro	
	Offer total²	Euro	

¹ Not for bidders from other EU countries

² The tender amount must also be stated in document 633

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3.4 Methodology / Strategy proposal

The bidder shall submit a methodology describing how the work will be executed.

The methodology shall include, at a minimum:

- Description of the proposed technical approach.
- Work Breakdown Structure (WBS) covering all activities required to complete the work package.
- Project schedule showing activities, milestones, deliverables, and dependencies.
- Resource allocation identifying the personnel assigned to each activity.
- Reporting plan including reporting frequency, content, and responsibilities.
- Risk register in accordance with the tender requirements.
- Deliverables matrix linking activities to expected outputs.

The Strategy proposal for the acquisition of new partners shall include, at a minimum:

- Target partner categories
- Partner selection criteria
- Engagement process
- Implementation schedule

3.5 Proposed Team and required qualifications

The bidder shall provide:

- Project organization chart.
- Curriculum Vitae (CV) for all key personnel (can be anonymous).
- Availability of each proposed resource.
- Assigned role and responsibilities.

Must allocate at least the following qualified personnel for this project:

- Senior - Technical Lead (Electro / Mechanical Engineering degree, ≥10 years experience)
- Senior - Vibration Analysis Specialist (≥5 years experience)
- Junior - Testing/Instrumentation Specialist (≥5 years experience)
- Senior - Project Manager (≥5 years experience)

All technical staff must have participated in at least one project related to vibration systems or downhole tools or comparable mechanical systems.

3.6 Risk Register

The methodology submission shall include a risk register with a minimum of 5 identified project risks. Each risk shall include risk description, category, probability, impact, mitigation action, responsible owner, trigger condition, and status.

3.7 Deliverables

The bidding candidate has to provide following documentation marking the end of the (five) work packages mentioned.

- Technical advisory report on vibration concepts and testing
- Pilot vibrator pre-design report including calculation notes and preliminary drawings
- Technical specification document for prototype tendering
- Partner acquisition and communication document
- Market study report including supplier comparison

3.7.1 KPI Summary and acceptance criteria for deliverables

The delivery of work packages, presented as report and documentation, has to be approved by ITE. The acceptance criteria for the deliverables mentioned is presented in the table below:

Activity	KPI	Acceptance Criteria
Vibration technology advisory	≥ 15 documented technical meetings	Meeting minutes + final technical report
Pilot vibrator pre-design	Pre-design demonstrated feasibility	Calculation memorandum and schematic drawings
Technical specification	Complete specification tender-ready	Approved written technical specifications
Acquisition of new partners	≥ 5 documented partner contact attempts	Written evidence of outreach and responses
Market study	≥ 3 qualified prototype suppliers identified	Market study report incl. cost & schedule estimates

3.8 Reporting Plan

The bidder shall provide a reporting plan defining:

- report frequency (weekly, monthly, intermediate and final);
- report submission deadlines;
- report format and content;
- progress measurement against milestones;
- status of deliverables;
- identified risks and corrective actions;
- resource allocation and utilization;
- planned activities until the next reporting period.

3.9 References

The bidder proposal shall include brief overviews of relevant reference projects and previous experience

Mandatory References

At least three completed projects within the last ten years involving one or more of:

- Vibration analysis
- Vibration modelling
- Vibration testing

- Downhole tools
- Drilling tools
- Rotating / linear machinery
- Dynamic mechanical systems

4 Evaluation Criteria

The bidder shall provide all information required for the evaluation in the offer. Missing or unclear information may result in a lower score or, for mandatory requirements, exclusion. The following criteria will be applied.

The following table will be used to conduct the final evaluation of all bidders. With the **letter A**, exclusion criteria are marked. The non-fulfillment of an exclusion criterion marked with A leads to exclusion of the offer (KO criterion). With the **letter B**, evaluation criteria are marked that will be used for the final scoring evaluation.

WP	Objective Criterion	Points	Criterion Type	Provided	Score
1.1 / 2.1 / 3.1 / 5.1	Methodology - Score based on the number of elements provided				
	Technical approach description	N/A	A	() Yes / () No	
	Work breakdown structure	N/A		() Yes / () No	
	Schedule with milestones	N/A		() Yes / () No	
	Resource allocation	N/A		() Yes / () No	
	Risk register	N/A		() Yes / () No	
	Reporting plan	N/A		() Yes / () No	
	Deliverables matrix	N/A		() Yes / () No	
1.2 / 2.2 / 3.2 / 5.2	Proposed team - Score based on documented qualifications of assigned personnel				
	Team organization chart including assigned role and responsibilities	1	B	() Yes / () No	
	Presence of all required roles defined in the SoW.	1		() Yes / () No	
	Curriculum Vitae (CV) for all key personnel	1		() Yes / () No	
	Number of years of relevant experience. (≤ 5 years = 1 point / > 5 years = 2 points)	2		() Yes / () No	
1.3 / 2.3 / 3.3 / 5.3	References - Score based on the number of completed reference projects (no reference=0 points / 1 reference=1 point / more than 1 reference=2 points)				
	Completed projects in vibration systems	2	B	() Yes / () No	
	Completed projects in modelling	2		() Yes / () No	
	Completed projects in testing	2		() Yes / () No	
	Completed projects in downhole tools	2		() Yes / () No	
	Completed projects in comparable mechanical systems	2		() Yes / () No	
4.1	Experience related to partner acquisition, business development, or technology commercialization				
	Proposal includes client references or experience evidence.	N/A	A	() Yes / () No	
4.2	Strategy proposal - Score based on the number of elements provided (provided=1 / not provided=0)				
	Target partner categories	1	B	() Yes / () No	
	Partner selection criteria	1		() Yes / () No	
	Engagement process	1		() Yes / () No	

	Implementation schedule	1	() Yes / () No
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4.1 Evaluation Scheme

The most economically advantageous tender will be determined using the criteria below.

Pos.	Description	Criteria	Rating
1	Commercial conditions and prices submitted. (weighting: 30%)	The lowest-priced offer receives the full score of 19 points. An offer whose total price is twice as high as the lowest offer price receives no points. Tenders whose price is between the lowest tender price and double the lowest tender price receive a linear score.	
2	Scope of services (weighting: 70%)	The sum of the points achieved for all B criteria (maximum 19 points)	

5 Further Declarations

1. Possible Exclusion Criteria

a) Exclusion criteria under further laws; Compliance with further legal provisions

☐ There are no exclusion criteria under § 21 of the Act to Combat Tax Evasion and Illegal Employment (SchwarzArbG), § 21 of the Employee Assignment Act (AEntG), § 19 of the Minimum Wage Act (MiLoG), § 98c of the Residence Act, and § 22 of the Supply Chain Due Diligence Act (LkSG).

2. As a public contracting authority, we are obliged to consider the interests of small and medium-sized enterprises in the award of contracts under § 97 GWB. Therefore, we need the following information for statistical purposes:

- ☐ My/our company is a small and medium-sized enterprise (SME).
☐ My/our company is not a small and medium-sized enterprise (SME).

3. Declaration in accordance with Annex to the BMWK Circular Letter of 14.04.2022 (Russia Sanctions)

(Please tick if applicable)

☐ The following declaration is made by me/us in a binding manner (possibly also on behalf of the applicants/offers mentioned below):

1. The applicant/bidder does not belong to the persons or companies mentioned in Article 5 k) (1) of Regulation (EU) No 833/2014 as amended by Article 1 (23) of Regulation (EU) 2022/576 of the Council of 08 April 2022 on restrictive measures in view of the actions of Russia undermining or threatening the territorial integrity, sovereignty and independence of Ukraine, by virtue of: a. Russian citizenship of the applicant/bidder or establishment of the applicant/bidder in Russia, b. Participation of a natural person or company, to which one of the criteria under letter a applies, in the applicant/bidder by holding more than 50% of the shares, c. Acting on behalf of or on the instructions of persons or companies, to which the criteria under letters a and/or b apply.

A. The companies involved as subcontractors, suppliers or companies whose capacities are used in connection with the provision of the suitability proof, which account for more than 10% of the contract value, do not belong to the persons or companies mentioned in the regulation with a connection to Russia.

B. It is confirmed and ensured that no companies involved as subcontractors, suppliers or companies whose capacities are used in connection with the provision of the suitability proof, which account for more than 10% of the contract value, will be used during the contract period.

Article 5 k) of Regulation (EU) No 833/2014 as amended by Article 1 (23) of Regulation (EU) 2022/576 of the Council of 08 April 2022 reads as follows:

(1) It is prohibited to award public contracts or concessions, which fall within the scope of the directives on public procurement and under Articles 10 (1), (3), (6) (a to e), (8) to (10) and Articles 11 to 14 of Directive 2014/23/EU, to the following persons, organisations or entities:

- a) Russian citizens or natural or legal persons, organisations or entities established in Russia,
- b) Legal persons, organisations or entities, whose shares are held by more than 50% directly or indirectly by one of the persons or entities mentioned under letter a,
- c) Natural or legal persons, organisations or entities, which act on behalf of or on the instructions of one of the persons or entities mentioned under letters a and/or b, also those, which account for more than 10% of the contract value, subcontractors, suppliers or companies, whose capacities are used in the sense of the directives on public procurement.

(2) The competent authorities may authorise the award or continuation of contracts, which are intended for:

- a) the operation, maintenance, decommissioning, disposal of radioactive waste, supply with and reprocessing of nuclear fuel, and the continuation of the planning, construction and acceptance tests for the commissioning of civil nuclear facilities and their safety, as well as the delivery of raw materials for the production of medical radioisotopes and similar medical applications,
 - b) international cooperation in the field of space programmes,
 - c) the provision of essential goods or services, which are exclusively or only in sufficient quantities available from the persons mentioned under paragraph 1,
 - d) the activity of diplomatic and consular representations of the Union and the Member States in Russia, including delegations, embassies and missions, or international organisations in Russia, which enjoy immunity under international law,
 - e) the purchase, import or transportation of gas and oil, including refined petroleum products, as well as titanium, aluminium, copper, nickel, palladium and iron ore from or through Russia into the Union, or
 - f) the purchase, import or transportation of coal and other solid fossil fuels listed in Annex XXII until 10 August 2022.
- (3) The relevant Member State shall inform the other Member States and the Commission of each authorisation granted under this Article within two weeks of its grant.
- (4) The prohibitions under paragraph 1 shall not apply to the performance — until 10 October 2022 — of contracts which were concluded before 09 April 2022.

Place, Date	Signature / company stamp
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