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Prague 1, Růžová 6, House 943, Postal Code 110 00, Czech Republic
Represented by: Tomáš Hebelka, MSc, CEO
(hereinafter referred to as „Contracting Authority“)

In Prague, dated *as per the electronic signature*

EXPLANATION, SUPPLEMENTATION AND ALTERATION OF TENDER DOCUMENTATION - IV.

The Contracting Authority of the below-threshold public contract „**Supply the Hot Stamping Foil with Diffractive Optically Variable Image Devices for the Commemorative Banknote**“ being awarded in simplified below-threshold procedure pursuant to Act No. 134/2016 Coll., On Public Procurement¹, as amended (hereinafter referred to as “Act”), hereby explains, supplements and alters the tender documentation in accordance with Sec. 98 and 99 of the Act.

Question No. 1:

Acc. Article 8.2.3 Proof of fulfilment of the basic capacity with its seat outside of the Czech Republic (foreign Contractor) certificates and statements a) to e) should be delivered acc. Annex 7 MANUAL FOR OBTAINING DOCUMENTS REGARDING BASIC CAPACITY.

Q: If we would use Annex 3a – Affidavit on compliance with the Basic and Professional Capacity. Do we still have to supply certificates and statements a) to e) acc. Article 8.2.3/ Annex 7?

Answer to the question No. 1:

If the Contractor was selected as a winner of the tender procedure, it is obligated to submit the originals of the given documents themselves before the final contract conclusion at latest.

The Affidavit on compliance with the Basic and Professional Capacity, if used, serves only for purposes of tender submission to accelerate and facilitate the process of tender submission and to widen the competition. Then the winner shall submit the given documents in originals, and it is an obligatory part.

Question No. 2:

Subject of the Contract

Subject of performance, point 1

¹ Please find the English version of the Act under this link: https://portal-vz.cz/wp-content/uploads/2019/06/Zakon-c-134_2016-Sb-o-zadavani-verejnych-zakazek-EN.pdf Please note that unfortunately it is not the final version of the Act, which has been amended afterwards.

Q: Is it correct that the requested designs should be graphical artworks, e. g. drawings and explanations indicating the DOVID design including the integrated optical effects as well as the partial demetallisation?

Answer to the question No. 2:

The Contracting Authority will provide only graphical design of Motif 1 and Motif 2 and the Contractor will suggest and add own optical effects of DOVIDs (security features) as well as the partial demetallisation.

Question No. 3:

Design of DOVIDs

STC will provide to the supplier a picture of the Motif 1 and a drawing of the Motif 2 from the ...

Q1: please let us know the data format of the picture of Motif 1; if there are several format possibilities please indicate.

Q2: please let us know the data format of the drawing of Motif 2; if there are several format possibilities please indicate.

Answer to the question No. 3:

The Contracting Authority will provide to the Contractor the picture of Motif 1 and the drawing of Motif 2 in any standard format, on which the Contracting Authority and the Contractor would agree.

The Contracting Authority notifies that it shall be the data from a scanned template.

Question No. 4:

Technical requirements for the hot stamping foil with DOVIDs

Optical density: 1,65 OD

Q: We assume that the OD value of 1,65 should be considered as a minimum. Is our assumption correct?

Answer to the question No. 4:

The Contracting Authority states that this value is optimal, but the Contracting Authority also allows the higher value of this parameter, which is acceptable.

Question No. 5:

Processing conditions

Application machine: Cavomit

Q: Could you please clarify whether your machine is of the type

- Cavomit Holo cylinder Heidelberg S 54×72 or
- Cavomit Holo Foil 2 Foil Pulls Heidelberg GT

Answer to the question No. 5:

The Contracting Authority owns the machine Cavomit Holo Cylinder, format 500 x 450 mm.

Question No. 6:

Production Process

In order to determine a suitable foil formulation it would be necessary to receive original paper samples with either the original offset printing or with a representative offset printing regarding color and area coverage for preliminary testing in our facilities. In particular original paper samples for motif 2 with the gold toned printed background are requested.

Q1: Is it possible to receive such samples immediately when the project starts?

The process description includes intaglio printing.

Q2: We assume intaglio printing is just on the note front side (side with applied DOVID); could you please confirm?

Answer to the question No. 6:

A1: The Contracting Authority assumes that the original banknote paper for this commemorative banknote will be likely delivered not sooner than in June 2021, thus the sample provision shall not be guaranteed, mainly due to shortage of time. Nevertheless, the Contracting Authority presupposes that Contractor has experience with a supply of hot stamping foil with DOVIDs for application on 100% cotton paper. This is the reason for laying down the given technical qualification as well. Moreover, please see the answers for the questions below.

A2: The Contracting Authority further specifies, that the intaglio printing will be on both sides of the commemorative banknote. The Contracting Authority wants to underline again that intaglio printing will partly cover the DOVID element.

Question No. 7:

Chemical resistance

Q1: Are these tests to be applied to the naked foil before application onto paper?

Q2: Trichlorethylene is classified as carcinogen; we therefore cannot use this solvent and expect that this is acceptable?

Q3: What is meant by sodim sulfide?

Q4: Is there a specification for the bioactive and the industrial detergent, e. g. bioactive from Persil?

Answer to the question No. 7:

Q1: As derived from the Technical Specification, these tests are performed after applying the foil on the paper, since the prescribed indications are dependent on the type of paper utilized and adhesive material.

Q2: It is true, therefore this chemical compound will be excluded from the tests.

Q3: Sodium sulfide (Na_2S)

Q4: There is not an exact specification for these detergents. Use the type you have available.

Question No. 8:

Size measurement and appearance control

Thickness will be measured with a micrometer.

Q: Does this measurement refers to the thickness of the PET carrier thickness?

Answer to the question No. 8:

Yes, the thickness of the sample is with the PET carrier.

Question No. 9:

Washing machine test

It is absolutely unusual that neither the type of washing machine nor the washing detergent is specified. In all specifications we know from our realized banknote project both points are clearly defined. However running the washing program at room temperature may compensate these deficiencies.

Q: Any comments?

Answer to the question No. 9:

The determination of the test of conditions is sufficient from the point of view of the Contracting Authority.

To avoid any possible discrimination, determination of the length of cycles and concentration only shall be relevant.

Question No. 10:

Freezing test

Q: Is our understanding correct that the tested sample is just compared with an untreated sample?

Answer to the question No. 10:

Yes, the Contracting Authority confirms that the tested sample is compared with the untreated and untested sample.

Question No. 11:**Heat resistance**

Q: We assume that the mentioned dryer should be a drying oven; could you please confirm?

Answer to the question No. 11:

The Contracting Authority states that any drier may be used, if the prescribed conditions for the test are met.

Question No. 12:**Xenon test**

Light fastness testing of hot stamping foils is very unusual.

We expect that our OVD foil products achieve a wool scale ranking of 3 or even 4.

Q: Would it be possible to delete this test?

Answer to the question No. 12:

The Contracting Authority states that the stipulated test shall be done because the samples can be exposed to light. UV protective layer may crack on the surface of the holographic foil and the layer may also show yellowing effect.

Question No. 13:**Crumpling test**

Q: We assume that the IGT Crumpling test device should be used; could you please confirm?

Answer to the question No. 13:

The Contracting Authority states that any crumpling device specially used for banknote testing may be used, if the prescribed conditions for the test are met. The Contracting Authority in the same states that it disposes of the IGT Crumpling test device.

Question No. 14:**Attachment No. 2: Design of the Motif 1**

Motif 1 is very vulnerable to the so called bulls eye effect. The 3D portrait is placed exactly in the middle of the patch and surrounded by symmetric lines of demetallisation.

Q1: Which tolerances should be achieved between the diffractive image and metallization?

Q2: What does the blue area mean?

Q3: What does the blue bubbles mean?

Q4: Should the 3D portrait be in gold?

Q5: Are you partially cutting the patch as indicated in your banknote sketch?

Answer to the question No. 14:

A1: The Contracting Authority has decided to allow a maximum tolerance of 0,5 mm between the diffractive image and metallization or demetallization.

A2: The blue area indicates the solid parts of Order of TGM, the Contracting Authority considers the provided grounds as sufficient for determination of technical conditions, nevertheless supplementary information about the appearance of the order might be easily found on the internet.

A3: The each beam is ended of a little drop of metal. Please see the answer to the question above.

A4: As stated in the Technical Specification, the Contracting Authority requires to use the aluminium foil, thus no gold foil is required. The provided design of the Motif serves only as a supplementary source of information for better imagination.

The particular rendering of the presented Motif is clearly on the Contractor, but the Contracting Authority prefers design which will be very similar to original template, whilst using aluminium foil.

A5: No, the provided design of the banknote was stated only as a printing design.

Question No. 15:

Attachment No. 2: Design of the Motif 2

Q1: Which tolerances should be achieved between the diffractive image and metallization?

Q2: Should the heraldic eagle be colored?

Answer to the question No. 15:

A1: The Contracting Authority has decided to allow a maximum tolerance of 0,5 mm between the diffractive image and metallization or demetallization.

A2: As stated in the Technical Specification the decision on the design including the colouring is up to the Contractor.

Both of the motifs should be generally designed in correspondence with the whole appearance of the commemorative banknote and it should be consistent to the design of the rest of the commemorative banknote.

Question No. 16:Abrasion test

The specified testing device is not available at ■■■.

Q: Would it be possible to alternatively apply the abrasion test with glass balls and the testing procedure according to the Euro banknote TS?

Answer to the question No. 16:

The Contracting Authority did not stipulate any particular testing device.

Nevertheless, the Contracting Authority has decided to change the specification of the test as follows:

"Abrasion test:

Suitable tests are standardly used for print quality control tests on the cotton surface"

Question No. 17:Tape test

The ASTM 3359 is not used by the banknote industry for tape testing of applied foil elements.

Q: We would like to propose the tape testing procedure according to the Euro banknote TS.

Answer to the question No. 17:

The Contracting Authority has decided to change the specification of the test as follows:

"Tape test:

This tape test is without cross-cut but with only application of special tape (TESA film 57341, 4104, 4202 or SCOTCH 610, 810) on the surface of metallic layer. Apply a 3 until 5 cm long strip of the tape on the surface of metallic layer. Wait 5 s and the tape is then pulled off either slowly or rapidly by hand."

Question No. 18:Storage conditions

Q: What are the storage conditions for the foil at your premises?

Answer to the question No. 18:

The Contracting Authority meets standard conditions of use and storage, which are set in the Art. VIII (5) of the Draft of the Purchase Contract. The conditions are: storage temperature: 10 - 35 °C, relative humidity: 40% - 60%.

Question No. 19:

Q: Would it be possible to perform application tests on your Cavomit machine with test foils (with generic design) provided by us and using original paper with the original offset printing or at least a representative offset printing?

Answer to the question No. 19:

The Contracting Authority assumes that original banknote paper for this commemorative banknote will be likely delivered not sooner than in June 2021, thus the application test on the original paper performance shall not be guaranteed, mainly due to the shortage of time. Nevertheless, the Contracting Authority presupposes that Contractor has experience with a supply of hot stamping foil with DOVIDs for application on 100% cotton paper. This is the reason for laying down the given technical qualification as well.

Question No. 20:

Q: For the outgoing control of foil we request the supply of original paper substrate with the original offset printing or at least a representative offset printing. Can you provide this substrate to us?

Answer to the question No. 20:

The Contracting Authority unfortunately cannot provide the original paper substrate with the original offset printing.

Question No. 21:

Our procedures for realizing banknote projects usually require certain approvals by our customers.

Q: Would you be prepared to provide approvals for the following actions?

- Approval of foil layouts including foil spooling direction based on technical drawings provided by us
- Approval of a foil formulation based on the test results of the above mentioned Cavomit application tests and respective durability tests
- Approval of limit samples regarding diffraction efficiency and partial demetallisation of the foil; limit samples means samples of FOIL, either before or after application on the banknote substrate, as the case may be, which determine that level of quality which is still acceptable by STC

Answer to the question No. 21:

The Contracting Authority shall be prepared to approve any tests or actions which will be performed by Contractor to ensure perfect quality. Nevertheless, the Contracting Authority

considers these actions as additional and supplementary. These actions cannot substitute conditions and actions which were stipulated in Tender Documentation or Draft Purchase Contract.

Regarding the questions above the Contracting Authority emphasizes that the approval of the Pilot DOVIDs in according with the Art. III (5) and (6) of the Draft Purchase Contract shall be crucial and relevant.

Based on the answers above the Contracting Authority has supplemented or altered the Technical Specification in several parts. Those answers form tender conditions of this tender procedure.

The Contracting Authority further stipulates that the Contractor shall not be obligated to submit the Technical Specification as the Annex no. 1 of the Draft Purchase Contract within its tender, since the Contracting Authority shall draft the altered version of Technical Specification in accordance with all the changes and supplementations stated above within the final conclusion of the Purchase Contract with the selected Contractor (the winner).

As stated in the Art. 15.1 of the INVITATION FOR TENDER SUBMISSION AND TENDER DOCUMENTATION, by submission of the tender the Contractor agrees with the tender conditions stipulated by the Contracting Authority and the law, i.e. including the tender conditions supplemented and altered by the answers above.

Given the information stated above, the Contracting Authority hereby extends the time limit for the submission of tenders to be at least as long from the moment of sending the alteration or supplementation as the original time limit in accordance with Sec. 99 (2) of the Act.

Time limit for the submission of tenders:

- **original time limit for the submission of tenders:** until 18. 2. 2021 9:00 AM
- **new time limit for the submission of tenders:** until 3. 3. 2021 10:00 AM
- **opening of tenders:** without undue delay after the expiry of the limit for the submission of tenders

Kind regards,

Mgr. Zuzana Šenoldová
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for the contracting authority
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