REQUEST FOR PROPOSAL

To: ALL BIDDERS

CTBTO Ref. No.: 2023-0094/RAHMAN
(PLEASE QUOTE ON ALL COMMUNICATIONS)

Tel. No.: +43 (1) 26030-6350
E-mail: procurement@ctbto.org

Date: 12 Jul 23

Attn: Phone:
Fax:
Email:

Subject: Software Development and Maintenance of Geotool on a Call-off Basis

Deadline for Submission: 10 Aug 23 Vienna Local Time: 17:00

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (hereinafter referred to as the 'Commission') hereby invites you to submit a proposal that meets the requirements of the attached documents.

You are kindly requested to complete and return the acknowledgement form by email as soon as possible.

If you have any questions you should contact the email address indicated above.

Yours Sincerely,

Sally Alvarez de Schreiner
Chief, Procurement Services Section
# ACKNOWLEDGEMENT FORM

**Solicitation No:** 2023-0094  
**Title:** Software Development and Maintenance of Geotool on a Call-off Basis

<table>
<thead>
<tr>
<th><strong>Closing Date:</strong></th>
<th>10 Aug 23</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vienna Local Time:</strong></td>
<td>17:00</td>
</tr>
</tbody>
</table>

**Procurement Staff:** Fazal Rahman  
**CTBTO Req. No.:** 0010022365

Please complete 'A' or 'B' or 'C' and Return

**WITHIN FIVE (5) DAYS**

THE PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION (CTBTO)

*by email to*

procurement@ctbto.org

<table>
<thead>
<tr>
<th><strong>A: We shall submit our proposal</strong></th>
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<tbody>
<tr>
<td><strong>Company Name:</strong></td>
<td>____________________________</td>
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<tr>
<td><strong>By:</strong></td>
<td>____________________________</td>
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<tr>
<td>(date)</td>
<td>____________________________</td>
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<tr>
<td><strong>Contact Name:</strong></td>
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<tr>
<th><strong>B: We may submit and will advise</strong></th>
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<tbody>
<tr>
<td><strong>Company Name:</strong></td>
<td>____________________________</td>
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<tr>
<td><strong>By:</strong></td>
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<tr>
<td><strong>Contact Name:</strong></td>
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<td><strong>Email/Tel:</strong></td>
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</table>

<table>
<thead>
<tr>
<th><strong>C: We will not submit a proposal for the following reason(s)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>___ our current workload does not permit us to take on additional work at this time;</td>
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<tr>
<td>___ we do not have the required expertise for this specific project;</td>
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<td>___ insufficient time to prepare a proper submission;</td>
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<tr>
<td>___ other (please specify)</td>
<td>____________________________</td>
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<tr>
<td><strong>Company Name:</strong></td>
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<td><strong>Contact Name:</strong></td>
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<tr>
<td><strong>Email/Tel:</strong></td>
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INSTRUCTIONS FOR PREPARATION AND SUBMISSION OF PROPOSALS

1. General

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (the Commission) with its headquarters in Vienna is the International Organization mandated to establish the global verification system foreseen under the Comprehensive Nuclear-Test-Ban Treaty (CTBT), which is the Treaty banning any nuclear weapon test explosion or any other nuclear explosions. The Treaty provides for a global verification regime, including a network of 321 stations worldwide, a communication system, an International Data Centre and on-site inspections to monitor compliance with the Treaty.

This Request for Proposal (RFP) is for the provision of SOFTWARE DEVELOPMENT AND MAINTENANCE OF GEOTOOL ON A CALL-OFF (hereinafter referred to as the “Services”) as described in the Terms of Reference.

The Proposal shall meet all requirements stated in the Terms of Reference and be submitted in accordance with these Instructions for Preparation and Submission of Proposals. For this project, the Commission is seeking capabilities, which will ensure that the services are delivered and the tasks are accomplished expeditiously and at a reasonable cost.

2. Documents included in this RFP

This RFP consists of the following documents:

(a) Letter of Invitation
(b) These Instructions for Preparation and Submission of Proposals and Bidder’s Statement and the following Attachments:
   - Attachment 1: Mandatory Table of Contents and Format of the Technical Proposal
   - Attachment 2: Evaluation Criteria and Method
   - Attachment 3: Procedure for submission of electronic offers in 2 sealed files
   - Attachment 4: Sample Format for Pricing
(c) List of CTBTO States Signatories
(d) Statement of Confirmation
(e) Vendor Profile Form
(f) The Commission’s Model Contract and its Annexes A – C;
   o The Commission’s General Conditions of Contract (Annex A)
   o The Commission’s Terms of Reference (Annex B)

Note: In the event of award, the Proposal will be incorporated as Annex C to the Contract.

3. Amendment of RFP Documents

At any time prior to the closing date for submission of Proposal, the Commission may, for any reason, modify the RFP documents by amendment. The Commission may consider extending the deadline in order to allow adequate time for considering the modifications in the preparation of the Proposal.

4. Language of the Proposal

The Proposal and all correspondence and documents relating to it shall be in English.
5. **Format and Submission of the Proposal**

The Proposal shall be typed, dated and signed by an official legally authorized to enter into contracts on behalf of your organization. The Proposal shall not contain any interlineation, erasures or overwriting except as necessary to correct errors, in which case such corrections shall be initialled by the authorized person(s) signing the Proposal.

*The Proposal shall be submitted electronically according to the attached “PROCEDURE FOR SUBMISSION OF ELECTRONIC OFFERS IN 2 SEALED FILES”.*

The Proposal shall be received not later than the closing date indicated in the Letter of Invitation.

6. **Request for Clarifications and Contacting the Commission**

The Commission will issue clarifications, if required. Bidders are requested to e-mail any questions pertaining to this RFP as soon as possible after receipt of the solicitation documents, but in any case, no later than **10 business days prior to the Closing Date**. No requests for clarifications will be entertained after this time. Questions will only be accepted via e-mail sent to:

- E-mail: procurement@ctbto.org
- Subject: Request for Clarifications re RFP No. 2023-0094/RAHMAN

The Commission will make all reasonable efforts to issue the clarifications not later than **7 business days prior to the Closing Date**.

Except in the case of responding to an RFP clarification, no bidder shall contact the Commission on any matter relating to the Proposal after its submission and until the award of the Contract. Any attempt to influence the Commission in its evaluation of the Proposal or the contract award decision may result in the rejection of the Proposal.

7. **Eligible Goods and Services**

The services and goods (if any) to be rendered under the Contract shall have their origin in the States Signatories of the Comprehensive Nuclear-Test-Ban Treaty (CTBT), the list of which is attached to this RFP. For purposes of this paragraph, "the origin" means the place from where the materials, goods and/or from which the services are supplied.

8. **Type of Contract and Payment**

The Commission intends to conclude firm fixed unit prices Call-off Contract based on the attached Model Contract. The terms and conditions of payment for services are described in Clause 13 of the attached Model Contract.

9. **Preparation of the Proposal**

The Proposal shall contain, but not necessarily be limited to, the information described below.

The Proposal shall be composed of the following separate parts:

____________

*Instructions for preparation and submission of Proposals – Request for Services*

*Page 2 of 8*
I. **Technical Proposal:** and  
II. **Financial Proposal:**

providing, but not limited to, the following information:

**PART I: TECHNICAL PROPOSAL**

Please state the reference number and the date of this RFP in the Proposal and any correspondence relating to it.

The Technical Proposal shall be submitted in accordance with Attachment 1 (Mandatory Table of Contents and Format of the Technical Proposal) and including the following:

**Point of Contact**

The Proposal shall state the contact details and address (name, telephone and fax numbers, and e-mail address) of the person/point of contact in your company dealing with this RFP.

**Bidder’s Statement, Statement of Confirmation and Vendor Profile Form**

The attached Bidder’s Statement, Statement of Confirmation and Vendor Profile Form shall be duly filled-in, signed and submitted as part of the Technical Proposal.

**Description of Services**

An explanation of the bidder’s understanding of the services to be provided and an overall preliminary operational plan for the execution of the services by providing section-by-section response to the Terms of Reference.

The Proposal shall also provide any other relevant issue which the bidder would like to bring to the attention of the Commission whether or not having cost implications.

**Specifications**

The Proposal shall include a detailed description of the items proposed and include relevant technical literature.

**Commission’s Inputs**

A description of the expected inputs/resources to be made available by the Commission and at what stage of the services.

**Qualifications**

Documentary evidence of the bidder’s qualifications to provide the Services, which shall establish to the Commission's satisfaction that the bidder has technical capability necessary to perform the Contract and other necessary ongoing services as required.

**Personnel**

The Technical Proposal shall include:

(a) A statement that the capacity of the Contractor, in terms of qualified manpower resources, is adequate to conduct the Work.

(b) A statement of availability of the personnel, and the minimum period required before starting the work under the Contract;

(c) A list of capable and experienced personnel, including their function and duration of assignment as key staff to work under this Contract (such as Project Manager or Team Leader, etc);
(d) Curriculum vitae of the key staff proposed for this contract, including experience with standards and technical experience to perform the Work.

Please note that it is the bidder’s responsibility alone to obtain work permits or visa or similar for the personnel proposed to implement this project. The Commission will make no effort nor accept any responsibility for obtaining work permits or visa or similar for the Contractor’s personnel.

Use of former Preparatory Commission for the CTBTO (“Commission”) employees in the preparation of Quotations:

A bidder must not, in the absence of prior written approval from the Commission, permit a person to contribute to, or participate in, any process relating to the preparation of a Quotation or the procurement process if the person:

a. At any time during the 12 months immediately preceding the date of issue of the Solicitation was an official, agent, servant or employee of, or otherwise engaged by the Commission;

b. At any time during the 24 months immediately preceding the date of issue of the Solicitation was an employee of the Commission personally engaged, directly or indirectly, in the definition of the requirements, project or activity to which the Solicitation relates.

Sub-Contractors

Names, legal status, address and qualifications of subcontractor(s), if any, and the scope of the subcontracted services. The Proposal shall provide a statement that your organization shall be fully responsible for the performance of sub-contractors. All sub-contractors shall be legally established in one of the CTBTO Member States.

PART II: FINANCIAL PROPOSAL

The Financial Proposal shall be prepared in United States Dollars or Euro and shall breakdown, separately, the costs for each task required by the Terms of Reference.

Note that clear and detailed explanations would enable us to evaluate the Proposal promptly and proceed with fewer requests for clarifications/justifications in a later stage. This is also a factor influencing the decision for Contract award.

The Financial Proposal shall be submitted as per Attachment 4 “Sample Format for Pricing” and shall contain, at the minimum, the following:

(i) Firm fixed unit prices for the Services required by Terms of Reference for the total contract duration (one (1) year with a possibility of three optional extensions of one (1) year each.

(ii) Firm fixed labor rates, with information on the category and number of staff proposed. This section must further include proposed person-hours/person-day including estimated manpower effort for each of the tasks required under the Terms of Reference. Please do note, that the firm fixed labor rates shall include costs and expenses for the full and proper performance of all obligations under the contract (including travel, allowances, management
and remuneration of the personnel, national income tax, medical, insurance and social security contribution, if applicable) for the provision of the services in accordance with the Terms of Reference.

Indirect Taxes
In principle the Commission is exempt from taxes. Since the arrangement under which such exemption is respected varies from country-to-country, the selected bidder will be informed by the Commission whether tax exemption will occur at source or whether taxes paid by the selected bidder will be reimbursed by the Commission upon submission of the original supporting documentation. “Taxes” means all direct and indirect taxes (including value added tax, general sales tax or goods and services tax), assessments, fees, customs duties, liens and charges in as much as they are levied in conclusion or implementation of the Contract, including customs restrictions and charges of similar nature in respect of articles imported or exported for the Commission’s official use.

For Austrian companies

The price quoted shall be net of Taxes. All applicable Taxes payable by the selected bidder at the conclusion or implementation of the Contract in respect of the goods/services shall be quoted separately or be separately identified on the Proposal together with information on the nature of the tax and its method of calculation.

For European Union (EU) Companies

The price quoted shall be net of Taxes. All applicable Taxes payable by the selected bidder at the conclusion or implementation of the Contract in respect of the goods/services shall be quoted separately or separately identified on the Proposal together with information on the nature of the Tax and its method of calculation. Due to the VAT exemption applicable to the Commission, no VAT will be charged to the Commission by the EEC Suppliers under the Contract (Ref. EU VAT Council Directive 2006/112/EC, Article 151).

For Non-EU Companies

The price quoted shall be net of Taxes. All applicable Taxes payable by the selected bidder at the conclusion or implementation of the Contract in respect of the goods/services shall be quoted separately or be separately identified on the Proposal together with information on the nature of the tax and its method of calculation. For deliveries to Vienna, Austria, and due to the tax exemption at source applicable to the Commission, no Taxes shall be charged to the Commission under the Contract.

10. Completeness and Correctness of the Proposal

The Commission reserves the right to verify all information furnished by you in the Proposal through a source of its choice. Any inaccurate information so given may lead to the rejection of the Proposal.

11. Validity of the Proposal

The Proposal shall be valid for 90 (ninety) days after the deadline for its submission to the Commission, unless an extension of validity has been requested by the Commission.
12. **Correction of Errors**

The Commission will check the Proposal for any arithmetic errors. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected.

13. **Evaluation of the Proposal**

The Commission, based on the evaluation criteria and method given in Attachment 2, will determine the Proposal that ‘most effectively satisfies the technical and operational requirements set out in the solicitation documents’ in accordance with the criteria specified in Attachment 2.

14. **Negotiations of the Proposal**

The Commission reserves the right to request clarifications on the Proposal and to enter into negotiations regarding technical or commercial aspects of the Proposal before awarding the contract under this RFP.

15. **Modification and Withdrawal of Proposal**

Bidders may modify or withdraw their Proposals after their submission, provided that written notice of the modification or withdrawal is received by the Commission by the closing date for the submission of the Proposal. The Proposal may not be modified subsequent to the closing date.

16. **The Commission’s Right to Reject the Proposal**

The Commission reserves the right to accept or reject the Proposal or to annul this procurement process at any time prior to the award of contract without having to inform the bidders of the grounds therefore, without thereby incurring any liability to the bidders.

17. **Costs of preparation and submission of the Proposal**

Bidders shall bear all the costs associated with the preparation and submission of their Proposal and the Commission will not be responsible or liable for those costs, regardless of the outcome of this RFP.
18. **Proprietary Information**

All documentation and information contained in this RFP are proprietary to the Commission and shall not be duplicated, used or disclosed -in whole or in part- for any purpose other than to evaluate them and respond to the Commission's request for Proposal or otherwise without prior written agreement of the Commission.
### BIDDER’S STATEMENT

**PLEASE STATE BELOW & SUBMIT WITH PROPOSAL**

<table>
<thead>
<tr>
<th>Delivery Time:</th>
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<table>
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<tr>
<th>Shipping weight (kg) and Volume (m³) – if applicable:</th>
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<table>
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<tr>
<th>List of recommended consumables and spares including prices and details on local availability, if applicable (please tick):</th>
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<tbody>
<tr>
<td>□ For one year period □ For a period of …………………………………</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Warranty period applicable (it shall be for a <strong>minimum of 24 months</strong>, starting from the acceptance of the goods/services by the Commission) – please tick below:</th>
</tr>
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<tbody>
<tr>
<td>□ For a two year period □ For a period of …………………………………</td>
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</table>

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<tr>
<th>Availability of local service in Vienna, Austria (if any):</th>
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<table>
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<tr>
<th>State country of origin or assembly of all items quoted:</th>
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<table>
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<tr>
<th>Quantity discount and early payment discount (if any):</th>
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</table>

Include documentary evidence of qualifications to perform the order, which shall establish to the Commission’s satisfaction that the bidder has the financial, technical and production capability necessary to perform the order in its entirety and to provide spare parts and other necessary on-going services as required.

- Include in this quotation: **Yes** □ **No** □

**Confirmation that the bidder has reviewed the Commission’s General Conditions of Contract, Draft Model Contract, and agreed to all terms and conditions.**

- **Yes** □ **No** □

**Remarks:**

With regards to the software provided with the equipment, state and confirm whether the software licenses are transferable to third parties, i.e. the Commission or the Commission’s State Signatories (Member States).

- **Yes** □ **No** □ **Not applicable** □

**Remarks:**

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<th>Name:</th>
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<tr>
<th>Name &amp; Title of Contact Person:</th>
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<tr>
<th>Signature &amp; date:</th>
</tr>
</thead>
</table>
### Attachment 1

**Instructions for Preparation and Submission of Proposal**

Software Development and Maintenance of Geotool on a Call-off Basis

**Mandatory Table of Contents and Format of the Technical Proposal**

<table>
<thead>
<tr>
<th>Item</th>
<th>Minimum content</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Executive Summary</td>
<td>• Provide an overview of proposal</td>
</tr>
<tr>
<td>2. Experience, Resources and Project Management</td>
<td></td>
</tr>
</tbody>
</table>
| 2.1 Corporate Profile and Values | • Background of company, ownership, size, location, profile  
• Discuss and show the relationship of any sub-contractors. |
| 2.2 Corporate Experience | • Experience in managing and executing work of similar scope and complexity. Please provide a description of past projects of similar scope and complexity. |
| 2.3 Project Management Team and Staffing | • Provide management structure and key personnel of the project. |
| 2.4 Availability of resources | • Please address in as much detail as reasonable what resources you deem necessary for the successful implementation of the project and when they will be made available during the intended project implementation, in terms of:  
  - key personnel;  
  - hardware;  
  - software;  
  - Other resources.  
• Include:  
  - A statement that the capacity of the Contractor, in terms of qualified manpower resources, is adequate to conduct the Work.  
  - A statement of availability of the personnel, and the minimum period required before starting the work under the Contract;  
  - A list of capable and experienced personnel, including their function and duration of assignment as key staff to work under this Contract (such as Project Manager or Team Leader, etc);  
  - Curriculum vitae of the key staff proposed for this contract, including experience with standards and technical experience to perform the Work. |
| 2.5 Quality Management Plan | • Provide a Quality Management Plan that describes how quality of services will be maintained throughout the Contract period.  
• Include QA certifications and applicable references, if applicable. |
3. **Meeting the Requirements**

### 3.1 Assumptions
- The bidder shall detail key assumptions that impact the Technical Proposal.

### 3.2 Understanding of the project
- The bidder’s response shall demonstrate a good understanding of the project as described in the Terms of Reference, and describe in detail how the required tasks/services will be accomplished. Elaborate on possible approaches and challenges to providing the requested services specified in section 2 of the Terms of Reference;
- The bidder’s response should describe in detail the expected inputs/resources to be made available by the Commission.

4. **Experience of the Contractor**

- Describe the technical challenges developing and maintaining a geophysical applications written in C, C++, and Python on Linux;
- Describe the software development methodologies used in past and current projects, highlighting experience with Agile software development methodologies;
- Provide a detailed description (with examples if possible) of end user and system design documentation;
- Provide a list of projects managing software development of a similar scope and complexity in large or medium-sized organizations.

5. **Skills and Experience of key staff**

- Provide the resume of the proposed key personnel which describes in detail all qualifications and experience specified in section 7 of the Terms of Reference.

6. **Attachments (as set out in section 9 of the Instructions for the Preparation of Proposals)**

- Information on sub-contractors (if applicable)
- Bidder’s Statement
- Statement of Confirmation
- Vendor Profile Form
1. QUALIFICATION REQUIREMENTS (PASS/FAIL)

Requirements for the Contractor (PASS /FAIL)

A minimum of five (5) years experience in developing interactive applications for geophysical analysis
PASS/FAIL
A minimum of five (5) years experience in developing Qt applications in C++
PASS/FAIL
A minimum of two (2) years experience in preparing compelling end user and system design documentation
PASS/FAIL
A minimum of two (2) years experience with writing unit, integration and regression tests
PASS/FAIL
A minimum of two (2) years experience in applying Agile methods to software development
PASS/FAIL

Requirement for the Contractor’s Personnel (PASS /FAIL)

University degree in computer science or in geophysics with a demonstrated and strong computing emphasis
PASS/FAIL
Minimum five (5) years of recent experience in software development using C and C++ as well as JavaScript and Python
PASS/FAIL
Minimum three (3) years recent experience developing geophysical applications using the Qt toolkit;
PASS/FAIL
Minimum three (3) years of recent experience using Linux as a software development platform.
PASS/FAIL
Minimum of two (2) years experience with programming using 2D/3D scientific visualization libraries (for instance for time series, histograms, surface plots, scatter plots) and web-based mapping libraries (such as OpenLayers, Leaflet and/or CesiumJS)
PASS/FAIL
Minimum of two (2) years experience with iterative and/or agile software development methodologies.
PASS/FAIL

Only bidders who pass all above criteria will be considered for the point system evaluation (2nd stage)

2. TECHNICAL REQUIREMENTS - EVALUATION CRITERIA AND METHOD

<table>
<thead>
<tr>
<th>Quality of the Proposal</th>
<th>Max Points</th>
<th>Factor</th>
<th>Weigted score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extent to which all aspects of the ToR have been addressed in sufficient detail and clarity.</td>
<td>5</td>
<td>1.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Understanding of the scope of work and the responsibilities of the Contractor</td>
<td>5</td>
<td>1.5</td>
<td>7.5</td>
</tr>
</tbody>
</table>

Maturity of the software quality processes proposed by the bidder.

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<th></th>
<th>Max Points</th>
<th>Factor</th>
<th>Weigted score</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

Subtotal | 15 | 20 |

Requirements for the Contractor

<table>
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<tr>
<th></th>
<th>Max Points</th>
<th>Factor</th>
<th>Weigted score</th>
</tr>
</thead>
<tbody>
<tr>
<td>A minimum of five (5) years experience in developing interactive applications for geophysical analysis</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>A minimum of five (5) years experience in developing Qt applications in C++</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>A minimum of two (2) years experience in preparing compelling end user and system design documentation.</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>A minimum of two (2) years experience with writing unit, integration and regression tests.</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>A minimum of two (2) years experience in applying Agile methods to software development.</td>
<td>5</td>
<td>1</td>
<td>5</td>
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</table>

Subtotal | 25 | 35 |

Skills and experience of (key) personnel to be met at the team level

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<tr>
<th></th>
<th>Max Points</th>
<th>Factor</th>
<th>Weigted score</th>
</tr>
</thead>
<tbody>
<tr>
<td>University degree in computer science or in geophysics with a demonstrated and strong computing emphasis</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Minimum five (5) years of recent experience in software development using C and C++ as well as JavaScript and Python</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Minimum three (3) years recent experience developing geophysical applications using the Qt toolkit; Experience with Motif is an advantage</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Minimum three (3) years of recent experience using Linux as a software development platform, usage of Redhat derived distributions such as RedHat Enterprise Linux or Rocky Linux is an advantage</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Minimum of two (2) years experience with programming using 2D/3D scientific visualization libraries (for instance for time series, histograms, surface plots, scatter plots) and web-based mapping libraries (such as OpenLayers, Leaflet and/or CesiumJS)</td>
<td>5</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>Minimum of two (2) years experience with iterative and/or agile software development methodologies, SCRUM certification is an advantage</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Knowledge with SHiL “NDC-in-a-Box” software development is an advantage</td>
<td>5</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

Subtotal | 35 | 50 |

TOTAL - Technical Evaluation | 75 | 105 |
“Procedure for Submission of Electronic Offers in 2 Sealed Files”

The Commission invites you to submit your sealed offer (Bid, or Proposal) in response to the solicitation forming part of this request.

Please be sure to follow the instructions below very carefully, so that the documents you submit are encrypted, and cannot be opened without an encryption key (password). If the documents are not encrypted, they will not be accepted as part of this tender process.

**CRITICAL INFORMATION:**

Create separate zip files for the technical offer and the financial offer (labeling them clearly in the title) with different encryption keys. Instructions for how to do this are provided below.

**Step 1:** You provide the encryption key (password) for the Technical Offer only (in accordance with the below instructions)!

**Step 2:** After the Commission has performed the evaluation of the Technical Offer, if your Technical Offer is considered to be acceptable, the Commission will request the encryption key (password) for the Financial Offer you have already submitted by the tender Deadline.

Should you have any questions, please send an email to procurement@ctbto.org.

**We recommend that you leave yourself plenty of time to complete the below process (including getting any necessary assistance from the Commission), as late offer will not be accepted.**

**INSTRUCTIONS:**

1. In a **WINDOWS** environment, one way of meeting the requirements is as follows.

   We recommend using the open-source, free software **7-zip**, but if you are comfortable with other tools, the result should be the same, as long as you can apply encryption to the archive. In the below, we’ll use 7-zip as an example.

   (You can download the 7-zip code for Windows at: 7-zip.org)

2. In **LINUX** environment, you can use, for instance, “sha1sum” on the command line.
Creating the archives for submission

Regardless of whether the offer is a single file, or a collection of files, the files are easier to manage if delivered as a single, compressed file. Compressing the archive is a common way to meet size limitations in email systems.

As an example of how to submit your offer in the required format: assuming you are supplier “SOFTCOMP” and have the following files related to the offer for “RFP 2020-0010/EDWALD”. (You will need to replace these elements with the real information for your actual offer in line with the relevant Instructions for Preparation and Submission of Proposals/Bids.) Assuming further that you have installed the 7-zip software on the Windows system you are using.

We will only go through the creation of the Technical Offer (Proposal/Bid) component; the Financial Offer (Proposal/Bid) component is similar.

![Figure 1 An example set of files to be submitted](image)

Select the four files and right-click; a Dialog box pops up, with one of the options being “7-ZIP >”. Hover your cursor over the “ >” part and a few more options appear, select the “Add to archive” option.

Another dialog box pops up (see ‘Figure 2, Creating an Archive’, next page):

Using the standard Windows methods, select a suitable location for the archive (if you don’t change it, the archive gets created right where the selected files are), and give it a name in the form of: “SOFTCOMP-2020-0010-EDWALD-TECHNICAL-BID”, of course replacing all the elements with the true values for the offer in question: the actual company indicator, and the actual RFP/ITB identification string. Note that it is not possible to put a slash “/” in the filename, and therefore put a dash “-” instead. Leave the file extension “.zip” as is.

Leave all the other settings as is, except: **add a password to the encryption** (see figure 2 below). This is done by typing the same password (of your choosing) twice in the two text fields in the lower right hand corner.

Make a note of this password. You must choose different passwords for the two zip archives, that is, the Technical and the Financial Proposal/Bid.
Now, we seek the “SHA1 Hash”, and electronic fingerprint of the archive you have just created. The hash is a string calculated from your file(s) and can be used to guarantee that the file has not been modified since you created it. Any change to the file will result in a different hash value.

There are many ways of calculating this; two common options are described below. If the appropriate functionality is available in your Windows environment: Select the compressed archive in the Windows file manager, (eg. SOFTCOMP-2020-0010-EDWALD-TECHNICAL-BID.zip) and right click. One of the options to select is “CRC SHA >”. Hovering over the “>” brings a few more options to light, select the SHA-1 option. A smaller dialog pops up: (see Figure 3, SHA1 below).
Clicking Ctrl-C grabs the contents of this box. You can close the box after copying the contents. (You can paste the contents into a mail message, for instance.)

![Checksum information](image)

**Figure 3 SHA1**

If this CRC SHA function is not available by ‘right-click’ on your Windows version, you can also do this from ‘the command line’, a slightly more complicated way. Open a CMD window (see sidebar below), move to the folder where your archive is, and execute the command:

```
certutil –hashfile SOFTCOMP-2020-0010-EDWALD-TECHNICAL-BID.zip sha1
```

where you obviously replace the name of the file with your real file name. The output of this command is the SHA1 “hash”. You can copy-and-paste the string for use in the email (below).

## Sidebar: How to open a CMD window in Windows:

The way to open a Command window (or ‘terminal’) depends on the version of Windows you have. The different methods are very clearly described in the following article, but a quick internet search will find multiple descriptions.

[https://www.lifewire.com/how-to-open-command-prompt-2618089](https://www.lifewire.com/how-to-open-command-prompt-2618089)

Finally,

1. Create a new email, Subject: example- “SOFTCOMP-2020-0010-EDWALD”. Add the two compressed archives, that is, the Technical Offer and the Financial Offer archives as attachments. The text of the email should contain the SHA1 information for both archives. **SEND THIS TO:** sealed_bids@ctbto.org (note that there is an underscore “_” between “sealed” and “bids”). (Should the email become larger than your mail system allows, you can try sending the two archives in separate emails. Take care to include the right SHA1 information with each file.)

2. Create a new email, Subject: example- “SOFTCOMP-2020-2010-EDWALD-Technical Offer” the contents of which must contain the Encryption Key for the Technical Offer (the password...
you used when creating the Technical Offer). (Again, note the underscore between 'bid' and ‘keys’.)

**SEND THIS TO:** bid_keys@ctbto.org

**IMPORTANT NOTE:** As stated above, only send the Encryption Key for the Technical Offer to the bid_keys@ctbto.org mailbox when sending your Technical and Financial Offer to the sealed_bids@ctbto.org mailbox. You shall only send the Encryption Key for the Financial Offer to the Commission if and when informed by the Commission that your Technical Offer had been evaluated as “technically acceptable”.

The Financial Offer Encryption Key will need to be provided by you to the same e-mail (bid_keys@ctbto.org) within 48 hours of the Commission’s request, clearly marked in Subject: Encryption Key for (example):“SOFTCOMP 2020-2010 EDWALD-Financial Offer”. If your Offer is not considered “technically acceptable”, the Commission will not request an Encryption Key for your Financial Offer, and it will remain unopened.

As mentioned above, should you have questions or difficulties, please send an e-mail to procurement@ctbto.org.

**We recommend that you leave yourself plenty of time to complete the above process (including getting any necessary assistance from the Commission), as late offers will not be accepted.**
**Attachment 4 - Sample Format for Pricing**

<table>
<thead>
<tr>
<th></th>
<th>INITIAL CALL-OFF PERIOD 1 (FIRM)</th>
<th>CALL-OFF PERIOD 2 (OPTIONAL)</th>
<th>CALL-OFF PERIOD 3 (OPTIONAL)</th>
<th>CALL-OFF PERIOD 4 (OPTIONAL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Unit</td>
<td>#</td>
<td>Rate**</td>
<td>Total</td>
</tr>
<tr>
<td><strong>Fees</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Staff fee - off site/on site</td>
<td>Person-Day</td>
<td>220 days</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal fees</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ancillary costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Travel costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International return travel*</td>
<td>Lump Sum</td>
<td>4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Allowances (if applicable)##</td>
<td>Day</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>...*)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Other costs</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>...*)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal ancillary costs</strong></td>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Overall total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*) Please change/add categories as appropriate. If changes are made, please adjust in order to arrive at total of 220 person-days
**) Please specify currency (USD or Euro only).
#) Airfares should be based on the least costly Economy Class ticket on the most direct route
##) Daily Subsistence Allowance (DSA) shall be calculated based on the values provided by the International Civil Service Commission (ICSC) for Vienna, Austria (https://icsc.un.org/).
CTBTO Member States

Afghanistan Ethiopia Mozambique Tuvalu
Albania Fiji Myanmar Uganda
Algeria Finland Namibia Ukraine
Andorra France Nauru United Arab Emirates
Angola Gabon Nepal United Kingdom
Antigua and Barbuda Gambia Netherlands (Kingdom of the)
Argentina Georgia New Zealand United Republic of Tanzania
Armenia Germany Nicaragua United States of America
Australia Ghana Niger Uruguay
Austria Ghana Nigeria Vanuatu
Azербайджан (Государство с многонациональным населением) Гренада Ниуэ Venezuela
Bahamas Guatemala North Macedonia Vietnam
Barbados Guinea Palau Yemen
Belarus Guyana Oman Zambia
Belgium Haiti Panama Zimbabwé
Belize Holy See Paraguay
Benin Honduras Peru
Bolivia (Plurinational State of) Iceland Qatar
Bosnia and Herzegovina Indonesia Philippines
Botswana Iran (Islamic Republic of) Portugal
Brazil Iraq Qatar
Brunei Darussalam Ireland Republic of Korea
Bulgaria Israel Republic of Moldova
Burkina Faso Italy Romania
Burundi Jamaica Russian Federation
Cambodia Japan Rwanda
Cameroon Jordan Saint Kitts and Nevis
Canada Kazakhstan Saint Lucia
Cabo Verde Kenya Saint Vincent and the Grenadines
Central African Republic Kiribati Samoa
Chad Kuwait São Tomé and Príncipe
Chile Lao People's Democratic Republic Senegal
China Latvia Serbia
Comoros Lenonin Seychelles
Congo Lesotho Sierra Leone
Cook Islands Liberia Singapore
Costa Rica Libya Slovakia
Côte d'Ivoire Liechtenstein Slovenia
Croatia Lithuania Solomon Islands
Cuba Luxembourg South Africa
Cyprus Madagascar Spain
Cyprus Malawi Sri Lanka
Czech Republic Malaysia Sudan
Democratic Republic of the Congo Maldives Suriname
Denmark Mali Sweden
Djibouti Malta Switzerland
Dominican Republic Marshall Islands Tajikistan
Ecuador Mauritania Thailand
Egypt Mexico Timor-Leste
El Salvador Micronesia, Federated States of Togo
Equatorial Guinea Monaco Trinidad and Tobago
Eritrea Mongolia Tunisia
Estonia Montenegro Türkiye
Eswatini Morocco Turkmenistan
STATEMENT OF CONFIRMATION

On behalf of (name of firm or organization): _____________________________. I hereby attest and confirm that:

a) The firm/organization possesses the legal status and capacity to enter into legally binding contracts with the Commission for the supply of equipment, supplies, services or work.

b) The firm/organization is not insolvent, in receivership, bankrupt or being wound up, and not under administration by a court or a judicial officer, and that it is not subject to the suspension of its business or legal proceedings for any of the foregoing reasons.

c) The firm/organization has fulfilled all its obligations to pay taxes and social security contributions.

d) The firm/organization has not, and that its directors and officers have not, within the last five years been convicted of any criminal offense related to professional conduct or the making of false statements or misrepresentations as to their capacity or qualifications to enter into a procurement or supply contract.

e) The Commission, in the event that any of the foregoing should occur at a later time, will be duly informed thereof, and in any event, will have the right to disqualify the firm/organization from any further participation in procurement proceedings.

f) The firm/organization did not/will not attempt to influence any other bidder, organization, partnership or corporation to either submit or not submit a proposal/bid/quotation.

g) The firm/organization will not, in the absence of a written approval from the Commission, permit a person to contribute to, or participate in, any process relating to the preparation of a Quotation/Bid/Proposal or the procurement process if the person:

   a. at any time during the 12 months immediately preceding the date of issue of the Solicitation was an official, agent, servant or employee of, or otherwise engaged by the Commission;
   b. at any time during the 24 months immediately preceding the date of issue of the Solicitation was an employee of the Commission personally engaged, directly or indirectly, in the definition of the requirements, project or activity to which the Solicitation relates.

h) Neither the organization/firm, its parent entities (if any), nor any of its subsidiary or affiliated entities (if any) have been identified on, or associated with any individual, groups, undertakings and entities identified on, the list established pursuant to the UN Security Council Resolution 1267 (Consolidated Sanctions List).  

i) Neither the organization/firm, its parent entities (if any), nor any of its subsidiary or affiliated entities (if any) are subject to any form of sanction imposed by an organization or body within the United Nations System, including the World Bank.

1 The Consolidated United Nations Security Council Sanctions List can be found on the following website: https://www.un.org/securitycouncil/content/un-sc-consolidated-list
j) Neither the organization/firm, its parent entities (if any), nor any of its subsidiary or affiliated entities (if any), is engaged in any practice inconsistent with the rights set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be protected from performing any work that is likely to be hazardous or to interfere with the child’s education, or to be harmful to the child’s health or physical, mental, spiritual, moral, or social development.

k) Neither the organization/firm, its parent entities (if any), nor any of its subsidiary or affiliated entities (if any) will use the funds received under contracts/purchase orders with the Commission to provide support to individuals, groups, undertakings or entities associated with terrorism.

l) The prices in the firm/organization’s proposal/bid/quotation have been arrived at independently, without consultation, communication or agreement with any other interested companies, competitor or potential competitor with a view to restricting competition.

m) The Commission shall have the right to disqualify the firm/organization from participation in any further procurement proceedings, if it offers, gives or agrees to give, directly or indirectly, to any current or former staff member of the Commission a gratuity in any form, an offer of employment or any other thing of service or value, as an inducement with respect to an act or a decision of, or a procedure followed by, the Commission in connection with a procurement proceeding.

n) The Commission shall have the right to disqualify the firm/organization from participation in any further procurement proceedings if it does not disclose to the Commission any situation that may appear as a conflict of interest, and if it does not disclose to the Commission if any official or professional under contract with the Commission have an interest of any kind in the firm/organization’s business or any kind of economic ties with the firm/organization.

o) The firm/organization expressly agrees to abide by the United Nations Supplier Code of Conduct.¹

Name (print): ___________________________ Signature: ___________________________

Title/Position: __________________________

Place (City and Country): ___________________________ Date: ___________________________

**VENDOR PROFILE FORM (VPF) – FOR PRODUCTS/SERVICES/WORK**

1. Name of Company:  

2. Street Address:  

3. Telephone:  

4. E-Mail:  

5. Website:  

6. Contact Person:  

7. Title:  

7. Legal Status (e.g. Partnership, Private Limited Company, Government Institution)  

   PLEASE INCLUDE A COPY OF THE CERTIFICATE OF INCORPORATION

8. Year Established:  

9. Number of Employees:  

10. Gross Corporate Annual Turnover (US$m)*:  

11. Annual Export Turnover (US$m)*:

12. Type of Business/Products:  
   - Manufacturer  
   - Sole Agent  
   - Supplier  

   Other (please explain)  

13. Type of Business/Services/Work:  
   - Engineering  
   - Civil Work  
   - Governmental Institution  

   Other (please explain)  

14. References (your main customers, country, year and technical field of products, services or work): **

15. Previous Supply Contracts with United Nations Organizations (over the last 3 years)**

<table>
<thead>
<tr>
<th>Organization:</th>
<th>Value in US$ Equivalent:</th>
<th>Year:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization:</td>
<td>Value in US$ Equivalent:</td>
<td>Year:</td>
</tr>
</tbody>
</table>

16. Summary of any changes in your company’s ownership during the last 5 years:

* Please provide a copy of the most recent audited annual report and accounts. Note: Export includes services or work performed abroad or for foreign clients.  
** Please provide supplementary documentation on these items.
17. List of Products/Services/Work offered:

<table>
<thead>
<tr>
<th>Product/Service/Work #</th>
<th>Product/Service/Work Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

18. This section shall be **signed and stamped** by an official legally authorized to enter into contracts on behalf of your organization:

<table>
<thead>
<tr>
<th>Name:</th>
<th>Title:</th>
<th>Signature:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bank Details**

Bank Name: 
Bank Address: 
Exact Account Holder Name: 

**Beneficiary Details**

Beneficiary Name: (exactly as stated on bank statements) 
IBAN: (if applicable) 
Account number: 
SWIFT/BIC: 
ABA/Sort Code: 

**Additional Details** (if applicable)

Correspondent bank: 
Correspondent account number: 
Correspondent SWIFT/BIC: 
Tax Identification Number: 

---

* Please provide a copy of the most recent audited annual report and accounts. Note: Export includes services or work performed abroad or for foreign clients. 
** Please provide supplementary documentation on these items.
MODEL CONTRACT

(Shopping Cart No. )
(SAP No. )

between

THE PREPARATORY COMMISSION

FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY

ORGANIZATION

and

THE NAME OF THE CONTRACTOR

for

THE PROVISION OF SERVICES PERTAINING TO SOFTWARE DEVELOPMENT AND MAINTENANCE OF GEOTOOL ON A CALL-OFF BASIS

This Contract comprises this cover page, a table of contents, 9 (nine) pages of text, a signatories page, a List of Annexes and 3 (three) Annexes (A to C)

May 2023
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MODEL CONTRACT

This CONTRACT is entered into between the PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION (hereinafter referred to as the “Commission”), having its office located at Wagramer Strasse 5, 1400 Vienna, Austria, and [NAME OF THE CONTRACTOR] (hereinafter referred to as the “Contractor”), having its registered office located at ______________________ [address] (both hereinafter individually referred to as the “Party” and collectively as the “Parties”).

The Parties hereto mutually agree as follows:

1 DEFINITIONS

In this Contract, words and expressions shall have the same meanings as respectively assigned to them in the General Conditions of Contract and the Terms of Reference. In addition, the following words and expressions shall have the meanings hereby assigned to them:

“Annex A” means the Commission’s General Conditions of Contract.

“Annex B” means the Commission’s Terms of Reference.

“Annex C” means the Contractor’s Proposal dated ….

“Contract” means this document, its Annexes and any further modifications or such further documents as may be expressly incorporated in this Contract by the Parties in accordance with Clause 21 (Contract Amendment) below.

“Contractor” means the legal entity named in the preamble of this Contract or its successors. The Contractor shall be the only interface for all matters pertaining to execution of the Work under this Contract.

“Party(ies)” means the Commission and/or the Contractor, as the context requires.

“Rule(s)” means any regulation(s), official directive(s), ordinance(s), guideline(s), customs and practices.

“Services” means the activities or tasks to be performed by the Contractor under the Contract as requested by the Commission under the WO.

“Work” means all the goods and services to be provided by the Contractor, including its affiliates and/or subcontractors, in order to fulfil all its obligations under the Contract, and the remedying of any defects therein.

“Work Orders (‘WO’)” mean orders issued by the Commission which specify the (parts or portions of) Work to be performed by the Contractor upon request by the Commission in accordance with Annexes B and C.
“Software” means the software and the source code described in Annex B and developed by the Contractor under this Contract.

2 AIM OF THE CONTRACT

The aim of this Contract is to provide Goods and Services namely, THE PROVISION OF SERVICES PERTAINING TO SOFTWARE DEVELOPMENT AND MAINTENANCE OF GEOTOOL ON A CALL-OFF BASIS (hereinafter referred to as the “Work”) to the Commission.

3 ENTRY INTO FORCE AND DURATION OF THE CONTRACT

The Contract shall enter into force upon the date of the last signature by the authorized Representatives of the Parties (hereinafter referred to as the “Effective Date”) and shall be valid until the Parties fulfill all their obligations hereunder.

4 COMMENCEMENT AND COMPLETION OF THE WORK

(i) The Commission shall have the right, but not obligation, to call-off the Works in the form of WO within a period of 12 months from the Effective Date or the performance of a maximum of 220 (one hundred and fifty) person-days by the Contractor, whichever occurs first (hereinafter referred to as the “Call-off Period”). The commencement and completion date for the performance of the Works (hereinafter referred to as “Commencement Date” and “Completion Date”, respectively) will be set out in the respective WO.

(ii) The Commission shall have the option to extend the Call-off Period three (3) times, subject to the availability of funds, under the same terms and conditions as those of this Contract. The Commission will inform the Contractor about its intention to extend the Work at least one (1) month prior to the expiry of the Contract. The optional extensions will be implemented through a written notification to the Contractor by the Commission.

5 STANDARD OF WORK

The Contractor shall perform the Work in a workmanlike manner in conformity with standard professional practices, using qualified personnel and in strict accordance with the Contract. The Contractor shall furnish the highest skill and judgement and cooperate with the Commission, including all the Commission’s consultants and agents, in best furthering the interests of the Commission and the aim of this Contract. The Contractor shall provide efficient business administration and supervision, and it shall perform the Work in the best way and in the most expeditious and economical manner consistent with the requirements of the Contract.

6 RESPONSIBILITIES OF THE CONTRACTOR

(a) The Contractor shall provide the Work described in Annexes B and C.

(b) The Contractor shall provide qualified English-speaking personnel as necessary to perform the Work under this Contract. The key persons shall be available for possible tasks related to
the Work throughout the duration of the Contract period. Any replacement of the key personnel shall be made in accordance with Clause 7 of Annex A.

(c) The Contractor shall provide the Software and Services described in Annexes B and C.

(d) The Contractor acknowledges that after the completion of the Work under this Contract, the Commission shall own the Software and source code described in Annex B and developed under this Contract, and the Contractor shall have no rights in that Software or source code unless granted by the Commission under Clause 24 of this Contract or in writing under a separate agreement”.

7 ORGANISATION OF CONTRACT IMPLEMENTATION

(a) During the term of the Contract, the Commission has the right, but not the obligation, to initiate performance of the Work through the issuance of individual WOs in accordance with Annex B based on the firm fixed unit prices set out in Annex C. The Contractor shall not perform any Work if not requested by the Commission through an WO. However, the Contractor may propose a WO for the Commission’s evaluation.

(b) The WO issued by the Commission shall be the basis for acceptance, invoicing and payment of any Work performed by the Contractor.

(c) The performance of the Work shall be made in full in accordance with the respective WO. Partial service performance of a WO will not be accepted and reimbursed without prior written agreement by the Commission.

(d) The Work shall be performed at the place and within the approved Work Plan specified in the relevant WO.

(e) The Commission may revise a WO as and when it may deem necessary.

8 WARRANTY

(a) The provisions of Clause 28 of Annex A shall apply to the Work performed by the Contractor.

(b) The Contractor shall ensure that the Commission shall experience no loss of service or support level by sub-contractors or repair agents acting on behalf of the Contractor.

9 PERMITS, NOTICES, LAWS AND ORDINANCES

(a) The Contractor shall obtain and pay for all permits and inspections necessary for the proper execution and completion of the Work that are customarily obtained upon execution of this Contract and that are legally required at the time the Proposal is received by the Commission. This shall include, but not be limited to, work permits, visa, or similar.

(b) The Contractor shall give all notices required by the nature of the Work.
(c) If the Contractor notices that the Work or any part thereof required under this Contract is not in accordance with applicable laws and Rules, or with technical or safety standards, it shall promptly notify the Commission thereof in writing.

10 PROTECTION OF PERSONS AND PROPERTY

(a) The Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programmes in connection with the Work.

(b) The Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage, injury and loss to:

(i) all employees on the Commission’s premises and all other persons who may be affected thereby;

(ii) all the Work, equipment, its spare parts, materials and supplies to be incorporated therein, whether in storage on or off the Commission’s premises, which are under the care, custody or control of the Contractor or any of its subcontractors; and

(iii) other property on the Commission’s premises or adjacent thereto.

(c) The Contractor shall give all notices and comply with all applicable laws and Rules bearing on the safety of persons and property and/or their protection from damage, injury and loss.

(d) The Contractor shall erect and maintain, as required by existing conditions and progress of the Work, all reasonable safeguards for the safety and protection of persons and property, including posting danger signs and other warnings against hazards and promulgating safety regulations.

(e) When the use or storage of combustible, explosive or other hazardous materials is necessary for the execution of the Work, the Contractor shall exercise the utmost care and shall carry on such activities under the supervision of properly qualified personnel.

(f) The Contractor shall be responsible for the prevention of accidents on the Commission’s premises during the execution of the Work.

(g) In any emergency affecting the safety of persons or property, the Contractor shall promptly act to prevent threatened damage, injury and loss.

(h) The Contractor shall promptly remedy all damage and loss to any property, referred to in Sub-Clause (b) above, caused in whole or in part by the Contractor, any subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable and for which the Contractor is responsible under Sub-Clause (b) above, except damage and loss attributable to the acts or omissions of the Commission or anyone directly or indirectly employed by it, or of anyone for whose acts the Commission may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to its obligations under Clause 9 of Annex A.
11 RESPONSIBILITIES OF THE COMMISSION

The Commission shall designate members of its staff to act as points of contact for the Contractor to ensure that the Work is carried out in accordance with Annexes A and C and shall promptly notify the Contractor thereof. The Commission shall respond promptly to requests for information by the Contractor regarding the Work.

12 CONTRACT PRICE

(a) The Commission shall pay to the Contractor, in consideration of the full and proper performance of its obligations under the Contract, as follows:

(i) For each WO issued during the firm Call-off Period specified in Clause 4(i) above, the firm fixed day rate pursuant to Annex C and, if applicable, the variable costs (travel costs and other expenditure) mentioned in section 6 of Annex B for each issued WO, pursuant to Annex C;

(ii) subject to sub-clause (b) below, for each WO issued during the first optional extension of the Call-off Period specified in Clause 4(ii) above, the firm fixed unit prices pursuant to Annex C and, if applicable, the variable costs (travel costs and other expenditure) mentioned in section 6 of Annex B for each issued WO, pursuant to Annex C;

(iii) subject to sub-clause (b) below, for each WO issued during the second optional extension of the Call-off Period specified in Clause 4(ii) above, the firm fixed unit prices pursuant to Annex C and, if applicable, the variable costs (travel costs and other expenditure) mentioned in section 6 of Annex B for each issued WO, pursuant to Annex C;

(iv) subject to sub-clause (b) below, for each WO issued during the third optional extension of the Call-off Period specified in Clause 4(ii) above, the firm fixed unit prices pursuant to Annex C and, if applicable, the variable costs (travel costs and other expenditure) mentioned in section 6 of Annex B for each issued WO, pursuant to Annex C;

(hereinafter referred to as the “Contract Price”).

(b) In the event that the Commission decides to extend the Call-off Period before the end of the initial 12-month period, as foreseen in Clause 4(ii) of this Contract, the Contractor will be reimbursed for the person-days called off in this period as follows:

(i) until the expiry of the initial Call-off Period, the daily rate set out in subparagraph (a)(i) above;

(ii) after the expiry of the initial Call-off Period, the daily rate agreed for the optional extension (subparagraph (a)(ii), (iii) or (iv) above).

(c) The unit prices set out in Annex C shall be held fixed for the entire duration of the Contract.

(d) The Contract Price shall cover all costs and expenses incurred by the Contractor for the full and proper performance of all relevant obligations under the Contract (including travel,
allowances, management and remuneration of the personnel, national income tax, medical insurance, and social security contributions).

(e) [PLEASE IDENTIFY WHETHER TAXES ARE APPLICABLE UNDER THIS CONTRACT AND SELECT ONE OF THE FOLLOWING OPTIONS AT THE TIME OF AWARD]:

The Contractor shall be reimbursed by the Commission for such taxes on the basis of actual amounts paid and duly documented by the Contractor as per Clause 13(e) below.

OR

No Taxes are applicable under this Contract.

13 PAYMENT

(a) The Contract Price shall be paid upon satisfactory completion of each deliverable for the Work and satisfactory completion of each WO and submission of the following:

i) Invoice drawn up in accordance with this Clause 13;

ii) Any other documentation that might be required under the applicable WO.

(b) The Commission will make the payments to the Contractor on the basis of an invoice submitted by the Contractor as per Sub-Clause (d) below. All payments shall be made within 30 (thirty) days of the receipt and acceptance of the invoice, provided that the Work has been satisfactorily completed and has been accepted by the Commission.

(c) The making of any payment hereunder by the Commission shall not be construed as an unconditional acceptance by the Commission of the Work accomplished by the Contractor up to the time of such payment.

(d) The Contractor shall submit an invoice electronically, from the Contractor’s official e-mail address in PDF format, duly signed and stamped by the Contractor and submitted to the Commission’s email address specified in Clause 22 below. Each invoice shall contain the Contract number (CTBTO and SAP numbers), detailed banking instructions, including the name and address of the Contractor’s bank, account number, account holder’s name and SWIFT, IBAN and/or ABA codes for payment by electronic transfer.

[PARAGRAPH (e) BELOW ONLY APPLIES IF THERE ARE TAXES (SEE CLAUSE 12 (d) ABOVE). IF NO TAXES ARE APPLICABLE UNDER THIS CONTRACT, PARAGRAPH (e) SHOULD BE OMITTED.]

(e) Applicable Taxes payable by the Contractor and/or its subcontractor(s) in respect of the Work shall be invoiced separately or be separately identified on the invoice. Actual payment of the Taxes must primarily be supported by original documentation such as invoices, bank account statements, transfer orders, or receipts issued by the local tax or customs authorities. If submission of such original documentation is not possible for justifiable reasons, their copies could be accepted by the Commission provided that they are duly signed and certified by local tax or customs authorities. In case the currency in which the Taxes are levied is not the
currency of the Contract, bank statements (or equivalent) showing the exchange rate used for
the conversion should be submitted to the Commission, in addition to any other supporting
documentation.

14 TEMPORARY SUSPENSION OF WORK

The Commission may, at any time, temporarily suspend the Work, in whole or in part, being
performed by the Contractor under this Contract by giving 30 (thirty) days’ advance notice in writing
to the Contractor. The Work so suspended shall be resumed by the Contractor on the basis of a
revised time schedule and on terms and conditions to be mutually agreed upon between the Parties.

15 DELAYS AND EXTENSION OF TIME

(a) If the Contractor is delayed at any time in the progress of the Work by any act or omission
of the Commission or by any of its employees, or by any other contractor employed by the
Commission, or by changes in the Work ordered by the Commission, or by any causes
beyond the Contractor’s reasonable control, or by any other cause which the Commission
determines may justify the delay, then the time for completion of the Work shall be extended
by an amendment to this Contract in accordance with Clause 21 below for such reasonable
time as the Commission may determine.

(b) Any request for extension of the time for reasons referred to in Clause 15(a) above shall be
submitted to the Commission not later than 20 (twenty) days after the commencement of
the delay, otherwise said request shall be deemed to be waived. Such request shall state
grounds for the delay and shall provide an estimate of the probable effect of such delay on
the progress of the Work.

16 CONTRACTOR’S CLAIMS AND REMEDIES

In no event shall the Contractor make any claim against the Commission for or be entitled to
additional costs or compensation resulting from any delays in the progress or completion of the
Work or any portion thereof, whether caused by the acts or omissions of the Commission,
including, but not limited to, damages related to overheads, loss of productivity, acceleration due
to delay and inefficiency. The Contractor’s sole remedy in such event shall be an extension of time
for completion of the Work, provided the Contractor otherwise meets the requirements and
conditions set forth in this Contract.

17 ENTIRE AGREEMENT

This Contract represents the final agreement in respect of the Work and shall supersede all prior
agreements and representations between the Parties in this respect. Annexes A to C shall constitute
integral parts of this Contract and shall be of full force and effect.

18 DISCREPANCIES

If there are discrepancies or conflicts between any of the documents that are part of this Contract,
the document to prevail shall be given precedence in the following order:

(i) This document;
(ii) The Commission’s General Conditions of Contract (Annex A);

(iii) The Commission’s Terms of Reference (Annex B);

(iv) The Contractor’s Proposal (Annex C);

(v) The relevant WO.

19 SEVERABILITY

If any term and/or provision of this Contract is or becomes invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions of this Contract shall not in any way be affected or impaired thereby.

20 NO WAIVER

Failure by a Party to enforce a right shall not be deemed to be a waiver of that right unless otherwise expressly provided in this Contract.

21 CONTRACT AMENDMENT

No modification of, or change in, this Contract, or waiver of any of its provisions, or additional contractual relationship with the Contractor shall be valid unless approved in the form of a written amendment to this Contract, signed by duly authorized Representatives of the Parties.

22 TRANSMISSION OF NOTICES AND OTHER DOCUMENTS

Notices, invoices, reports and other documentation under the Contract shall be delivered or sent to the relevant Party as follows (or to such person/title, address or email address as the Party may substitute by notice after the date of the Contract):

(a) The Commission:

For Contractual Issues:

Chief, Procurement Section
Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO)
Vienna International Centre
Wagramerstrasse 5, P.O. Box 1200
1400 Vienna, Austria
Tel: + (43 1) 26030 6350
E-mail: procurement@ctbto.org

For submission of invoices:

Accounts Payable
CTBTO Financial Services Section
Vienna International Centre
Wagramerstrasse 5, P.O. Box 1200
1400 Vienna, Austria
Tel: + (43 1) 26030 6292
E-Mail: Payable_Invoices@ctbto.org

For invoices related enquiries:
Payments@ctbto.org

(b) The Contractor:

For Contractual Issues and Invoices and Related Enquiries:

Name: ..............
Title ..................
Address ..............
Tel: .....................
Email: .................

23 EFFECTIVENESS

(a) Except as provided below, any communication in connection with the Contract will be
deemed to be given as follows:

(i) if delivered in person, at the time of delivery;

(ii) if by registered mail or courier, when received;

(iv) if by electronic communication, when retrievable by the Commission in document
form.

(b) A communication given under Clause 23(a) above that is received or becomes retrievable on
a non-working day or after business hours at the seat of the Commission will only be deemed
to be given on the next working day of the Commission.

24 SOFTWARE LICENCE

The Commission hereby grants the Contractor a non-exclusive, non-transferable, irrevocable license
to use the Software for the duration of the Contract and for the purpose of doing the Work under the
Contract. The use of the source code is only for the duration of the Contract and for the Work
required under the Contract. All title, ownership rights and intellectual property rights in and to the
Software shall remain with the Commission. The Contractor acquires no title, right or interest in the
Software, other than the license(s) specifically granted herein by the Commission.
IN WITNESS hereof, the duly authorized Representatives of the Parties have executed this Contract:

For and on behalf of the PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION:

Name and Position

Date: ________________ Place: Vienna, Austria

For and on behalf of [REGISTERED NAME OF THE CONTRACTOR]:

Name and Position

Date: ________________ Place: ________________
LIST OF ANNEXES

ANNEX A: THE COMMISSION’S GENERAL CONDITIONS OF CONTRACT

ANNEX B: THE COMMISSION’S TERMS OF REFERENCE

ANNEX C: THE CONTRACTOR’S PROPOSAL
ANNEX A

General Conditions of Contract

1. DEFINITIONS

(a) In these general conditions of contract the terms beginning with a capital letter shall have the meaning as defined in the Contract.

(b) “Services” means all services to be rendered under the Contract.

(c) “Goods” shall mean all goods, equipment, materials and/or other supplies to be provided under the Contract.

(d) “Taxes” shall mean all direct and indirect taxes (including value added tax, general sales tax or goods and services tax), assessments, fees, customs duties, liens and charges in as much as they are levied in conclusion or implementation of the Contract, including customs restrictions and charges of similar nature in respect of articles imported or exported for the Commission’s official use.

2. LEGAL STATUS

The Contractor shall be considered as having the legal status of an independent contractor vis-à-vis the Commission. Neither the Contractor and any subcontractor, nor their personnel shall be considered to be an employee or an agent of the Commission.

3. ASSIGNMENT

The Contractor shall not assign, transfer, pledge or make other disposition of the Contract or any part thereof, or any of the Contractor’s rights, claims or obligations under the Contract except with the prior written consent of the Commission.

4. SUBCONTRACTING

In the event the Contractor requires the services of one or more subcontractors, the Contractor shall obtain the prior written approval and clearance of the Commission for such subcontractor(s). The Commission’s approval of a subcontractor shall not relieve the Contractor of any of his obligations under the Contract, and the terms of any subcontract shall be subject to and in conformity with the provisions of the Contract.

5. SOURCE OF INSTRUCTIONS

(a) The Contractor shall neither seek nor accept instructions from any authority external to the Commission in connection with the performance of its obligations under the Contract. The Contractor shall refrain from any action which may adversely affect the Commission and shall fulfill its commitments with the fullest regard to the interests of the Commission.

(b) While present at the Commission’s premises, personnel of the Contractor shall, at all times, obey and conform to all requests and instructions of the Commission’s officials and the United Nations Security Staff.

6. CONTRACTOR’S RESPONSIBILITY FOR EMPLOYEES

The Contractor shall be responsible for the professional and technical competence of its employees and will select, for the performance under the Contract, reliable individuals who will perform effectively in the implementation of the Contract, respect the local laws and customs and conform to a high standard of moral and ethical conduct.

7. ASSIGNMENT OF PERSONNEL

(a) The Contractor shall not replace or withdraw any personnel referred to in the Contract for the performance of the Services without the prior written approval of the Commission or unless requested by the Commission.

(b) Prior to assignment, replacement or withdrawal of personnel for the performance of the Services, the Contractor shall submit to the Commission for its consideration, the curriculum vitae or detailed justification to permit evaluation by the Commission of the impact which such assignment, replacement or withdrawal would have on the Services.

(c) In the event of withdrawal of personnel, all costs and additional expenses resulting from the replacement, for whatever reasons, of any of the Contractor’s personnel shall be for the account of the Contractor. Such withdrawal shall not be considered as termination in part or in whole of the Contract.
8. CONFLICT OF INTEREST

No employee, officer, adviser, agent and/or subcontractor of the Contractor assigned to perform Services under the Contract shall engage, directly or indirectly, in any business, profession or occupation connected or related to the Services or Goods to be provided under the Contract if this constitutes a conflict of interest.

9. INSURANCES

(a) The Contractor shall provide and thereafter maintain appropriate insurance, or its equivalent, with respect to its employees to cover claims for personal injury or death in connection with the Contract.
(b) The Contractor shall provide and thereafter maintain insurance against all risk in respect of its property and any equipment used for the execution of the Contract.
(c) The Contractor shall also provide and thereafter maintain liability insurance in an adequate amount to cover third party claims for death, bodily injury, loss of and damage to property arising from any operations carried out by the Contractor in performing its obligations in connection with the Contract or from operation of any vehicles, boats, airplanes and other equipment owned or leased by the Contractor or its agents, servants, employees or subcontractors.
(d) Except for insurance mentioned in paragraph (a), the insurance policies under this clause shall:
   (i) Name the Commission as additional beneficiary;
   (ii) Include a waiver of subrogation of the Contractor’s rights to the insurance carrier against the Commission.
(e) The Contractor shall, upon request, provide the Commission with satisfactory evidence of the insurance required under the Contract.
(f) Any amounts not insured, not recovered from or not claimed by the insurer shall be borne by the Contractor.
(g) Information concerning reduction of coverage shall be furnished by the Contractor to the Commission with at least thirty (30) days prior written notice.
(h) The Contractor undertakes that provisions to the same effect as the provisions in sub-clauses (a) through (c) above will be inserted in all subcontracts made in performance of the Contract, except sub-contracts exclusively for furnishing Goods.

10. ENCUMBRANCES/LIENS

The Contractor shall not cause or permit any lien, attachment or other encumbrance by any person to be placed on file in any public office or on file with the Commission against any monies due or to become due for any Services or Goods provided under the Contract, or by reason of any other claim or demand against the Contractor.

11. OBSERVANCE OF THE LAW

(a) The Contractor shall comply with all laws, ordinances, rules and regulations, including but not limited to health, environmental and labour laws bearing upon the performance of its obligations under the terms of the Contract.
(b) In particular, the Contractor shall comply with the labour laws of the country in which the Services or Goods are to be furnished providing for benefits covering injury or death in the course of employment.

12. CONFIDENTIALITY

(a) All technical, financial or other documentation and data the Contractor compiled for or received from the Commission under the Contract shall be treated as confidential and shall be delivered only to the Commission’s authorized officials on completion of the Services or as requested by the Commission.
(b) Either Party acknowledges that all knowledge and information concerning the other Party that may be acquired in connection with the performance of its obligations under the Contract, including but not limited to, any information relating to its operations and procedures, are confidential and proprietary information of the other Party and it shall receive such confidential and proprietary information of the other Party in confidence and shall not disclose or permit disclosure of any such knowledge or information to any person and/or entity without the prior written consent of the other Party.
(c) The Contractor shall not, at any time, use such confidential information to its own advantage.
(d) The restrictions on confidentiality shall not apply to the information which:
   (i) presently is in the public domain;
   (ii) hereafter becomes part of the public domain without the other Party’s fault;
   (iii) was in the possession of the other Party at the time of the disclosure, as shown by written evidence;
   (iv) is disclosed to the other Party at any time hereafter by a third Party.
   (v) is required to be disclosed to governing bodies, or to governmental authorities to the extent required by law or to obtain needed authorization to perform the Contract or pursuant to reporting requirements imposed by those governing bodies or the government of the State of the Contractor.
   (e) These obligations do not lapse upon satisfactory completion of the Services, delivery of the Goods or termination of the Contract by the Commission.

13. LANGUAGES, WEIGHTS AND MEASURES

Unless otherwise specified in the Contract, the English language shall be used by the Contractor in all written communications to the Commission with respect to the Services or Goods to be provided and all documents procured or prepared by the Contractor. The Contractor shall use metric units, except when otherwise specified in the Contract.

14. PUBLICITY

(a) The Contractor shall not advertise or otherwise make public the fact that it is providing or has provided Services and Goods for the Commission. Also, the
Contractor shall not, in any manner whatsoever, use the name, emblem or official seal of the Commission or any abbreviation of the name of the Comprehensive Nuclear-Test-Ban Treaty Organization in connection with its business or otherwise.  

(b) These obligations do not lapse upon satisfactory completion of the Services, delivery of the Goods or termination of the Contract.

15. OFFICIALS NOT TO BENEFIT/CONTINGENT FEES

(a) The Contractor warrants that:
(i) No person or selling agency has been employed or retained by it to solicit or secure the Contract upon an agreement or understanding for a commission, percentage, brokerage, contingent fee or retainer, except regular employees or bona fide and officially established commercial or selling agencies maintained by the Contractor for the purpose of securing business;
(ii) No official or servant or retired employee of the Commission who is not a regular employee of the Contractor, has been or shall be admitted by the Contractor to any direct or indirect benefit arising from the Contract or the award thereof.

(b) In case of breach by the Contractor of the warranties referred to in previous clauses, the Commission shall have the right to deduct from the Contract Price, or otherwise recover from the Contractor, the full amount of any such commission, percentage, brokerage, contingent fee or retainer so paid.

16. INTELLECTUAL PROPERTY AND OTHER PROPRIETARY RIGHTS

(a) Except to the extent the Contractor has granted a license to the Commission, the Commission shall be entitled to all intellectual property, including but not limited to copyrights, patents and trademarks, with regard to products, documents or other materials which bear a direct relation to or are produced or collected under the Contract. The Contractor shall take all necessary steps, prepare and process all necessary documents and assist in securing such property rights and transferring them to the Commission and/or to the government where the Services or Goods are to be provided, in compliance with the requirements of the applicable law.

(b) The Contractor declares that it does not know of any intellectual property rights of third parties which might be infringed in the execution of the Contract. Should, contrary to the Contractor’s expectation, claims be raised against the Commission charging it with infringement of intellectual property rights, the Contractor shall hold harmless the Commission and shall indemnify it to the full extent of any damages or awards arising from such claims. This obligation of the Contractor shall continue to be in full force and effect up to the expiration of such intellectual property rights.

(c) The Commission shall give the Contractor due notice in writing of any charges of infringement brought against the Commission and of the filing of any suit for infringement of intellectual property rights of third parties due to the execution of the Contract, and, without prejudice to the immunity enjoyed by the Commission as an international organization from every form of legal process, including enforcement and execution, the Commission shall give the Contractor the opportunity to defend the Commission against the said suit at its discretion and shall not, without the Contractor’s consent in writing, make any admission or consent to any claim of any third party, which might be prejudicial to the Contractor’s position.

17. DEFAULT BY THE CONTRACTOR

(a) In case the Contractor fails to fulfil its obligations and responsibilities under the Contract and provided the Contractor has not remedied such failure(s) within thirty (30) days of having been given written notification by the Commission of the nature of the failure(s), the Commission may, at its entire discretion and without prejudice to its right to withhold payment(s), hold the Contractor in default under the Contract.

(b) When the Contractor is in default, the Commission may, by giving written notice to the Contractor, terminate the Contract as a whole or such part or parts thereof in respect of which the Contractor is in default. Upon such notice, the Commission shall have the right to seek completion, at the Contractor’s expense, of that part or those parts of the Contract with respect to which the Contractor is in default.

(c) The Contractor shall, in this case, be solely responsible for any reasonable costs of completion of the Services and/or delivery of Goods, including such costs, which are incurred by the Commission over and above the originally agreed Contract Price.

18. WITHHOLDING OF PAYMENT

(a) The Commission may withhold any payment to the Contractor or, on account of subsequently discovered evidence, nullify the whole or part of any payment approval theretofore given, to such an extent as may be necessary to protect the Commission from loss under the Contract on account of:
(i) The Contractor’s failure to carry out its obligations or to make adequate progress with the obligations, except for failure arising out of force majeure;
(ii) The Contractor’s failure to remedy unsatisfactory performance, when such failure has been drawn to his attention by the Commission;
(iii) The Contractor’s failure to submit on time the reports required.

(b) The withholding by the Commission of any interim payment shall not affect the Contractor’s obligation to continue performance of his obligations under the Contract.

(c) No interest shall accrue on payments eventually withheld by the Commission in application of the stipulations of this paragraph.
19. LIQUIDATED DAMAGES

Subject to Clause 20 below (force majeure), if the Contractor fails to deliver any or all of the Services and/or Goods within the latest time period(s) specified in the Contract, the Commission may, without prejudice to its other remedies under the Contract, deduct from the Contract Price as liquidated damages, a sum equivalent to 0.2 per cent of the portion of the Contract Price for the delayed Services and/or Goods for each working day of delay until actual performance, up to a maximum of sixty (60) working days. The recovery by the Commission of proven damages shall not be excluded.

20. FORCE MAJEURE

(a) Force majeure as used herein shall mean acts of God, industrial disturbances, acts of the public enemy, civil disturbances, explosions and any other similar cause of equivalent force not caused by nor within the control of either party and which neither party is able to overcome.
(b) As soon as possible after the occurrence of any cause constituting force majeure, the Contractor shall give notice and full particulars in writing to the Commission of such force majeure if the Contractor is thereby rendered unable, wholly or in part, to perform its obligations and meet its responsibilities under the Contract.
(c) In this event, the following provisions shall apply:
   (i) The obligations and responsibilities of the Contractor under the Contract shall be suspended to the extent of its inability to perform them and for as long as such inability continues;
   (ii) The term of the Contract shall be extended for a period equal to the period of suspension taking, however, into account any special conditions which may cause the time for completion of the obligations to be different from the period of suspension;
   (iii) If the Contractor is rendered permanently unable, wholly or in part, by reason of force majeure to perform its obligations and meet its responsibilities under the Contract, the Commission shall have the right to terminate the Contract on the same terms and conditions as are provided for in the Termination Clause of the Contract, except that the period of notice may be seven (7) days instead of thirty (30) days;
   iv) For the purpose of the preceding sub-clause, the Commission may consider the Contractor permanently unable to perform in case of any period of suspension in excess of ninety (90) days. Any such period of ninety (90) days or less shall be deemed temporary inability to perform.

21. INSOLVENCY AND BANKRUPTCY

Should the Contractor be insolvent, adjudged bankrupt, or should the Contractor make a general assignment for the benefit of its creditors, or should a receiver be appointed on account of the Contractor’s insolvency, the Commission may, without prejudice to any other right or remedy it may have under the terms of the Contract, terminate the Contract forthwith by giving the Contractor written notice of such termination.

22. INDEMNIFICATION

The Contractor shall indemnify, hold and save harmless and defend at its own expense the Commission, its officers, agents, servants and employees from and against all suits, claims, demands and liability of any nature or kind, including cost and expenses arising out of acts or omissions of the Contractor or its employees or subcontractors in the performance of the Contract. This requirement shall extend, inter alia, to claims or liabilities in the nature of workers’ compensation and to claims or liabilities pertaining to intellectual property rights. The obligations under this clause do not lapse upon termination of the Contract.

23. AMICABLE SETTLEMENT

The parties shall use their best efforts to settle amicably through negotiation any dispute, controversy or claim arising out of, or relating to, the Contract or the breach, termination or invalidity thereof. If the parties cannot reach such amicable settlement through negotiations, the matter shall first be referred to conciliation, by a request by either party for conciliation procedures. The conciliation shall take place in accordance with the United Nations Commission on International Trade Law (UNCITRAL) Conciliation Rules then prevailing, or according to such other procedure as may be agreed between the parties, within a time period of ninety (90) days. There shall be one conciliator. The conciliation shall be in Vienna, Austria, and it shall be conducted in the English language.

24. ARBITRATION

(a) In the event of a failure to reach an amicable settlement in accordance with Clause 23 above (Amicable Settlement), any dispute arising out of the interpretation or application of the terms of the Contract or any breach thereof shall be settled in accordance with the arbitration rules established by UNCITRAL as at present in force. The number of arbitrators shall be one. The arbitration shall be in Vienna, Austria, and it shall be conducted in the English language.
(b) The arbitrator shall take into account the internationally recognized general principles of commercial transactions. The arbitrator shall have no authority to award punitive damages, nor to award interest in excess of five (5) per cent, and any such interest shall be simple interest only. The parties shall be bound by any arbitration award rendered as a result of such arbitration as the final adjudication of any such dispute.

25. PRIVILEGES AND IMMUNITIES

Nothing in or relating to the Contract shall be deemed a waiver, express or implied, of any of the privileges and immunities of the Commission and its employees.
25(a). TAX EXEMPTION

In principle, the Commission is exempt from all Taxes. Since the arrangement under which such exemption is respected varies from country-to-country, the Contractor shall collaborate with the Commission to achieve Tax exemption at source or to pursue reimbursement of Taxes paid by the Commission, as the case may be.

26. TERMINATION

The Commission may terminate the Contract in whole or in part, and at any time, upon thirty (30) days’ notice of termination to the Contractor. In the event such termination is not caused by the Contractor’s negligence or fault, the Commission shall be liable to the Contractor for payment in respect of Services already satisfactorily accomplished or Goods delivered and accepted and in conformity with the terms of the Contract, for necessary terminal expenses of the Contractor, and for the cost of such urgent work as is essential and as the Contractor is asked by the Commission to complete. The Contractor shall keep expenses at a minimum and shall not undertake any forward commitment from the date of receipt of the Commission’s notice of termination.

27. GOODS

In the event that the Contract requires the Contractor to supply Goods, Clauses 28-35 shall apply in addition to the above.

28. WARRANTY

(a) The Contractor warrants that the Goods, including packaging, conform to the specifications for the Goods ordered under the Contract and are fit for the purpose for which such Goods are ordinarily used and for purposes expressly made known to the Contractor by the Commission, and are new and free from defects in design, workmanship and materials.

(b) This warranty shall remain valid for twenty-four (24) months after the Goods or any part thereof have been delivered and accepted, whichever is later, unless the Contractor has granted a longer period. Should the Commission transfer the title of the Goods to a third party during the warranty period, the right to enjoy the warranty shall be transferable to the new title-holder.

(c) If, during the warranty period mentioned in sub-clause (b) above, the Goods or any part thereof are found to be defective or not in conformity with the specifications under the Contract, the Contractor shall, upon notification, promptly and at its own expense correct all such defects and non-conformities. If these defects and non-conformities cannot be corrected, the Commission shall have the right, at the Contractor's expense, to either demand replacement of the defective item, or receive appropriate reimbursement, or have the defective item repaired or otherwise procured from a third party.

29. INSPECTIONS AND TESTS

(a) The Commission shall have the right to inspect and/or to test the Goods to confirm their conformity to the technical specifications. The technical specifications shall specify what inspections and tests the Commission requires.

(b) The inspections and tests may be conducted on the premises of the Contractor or its subcontractor(s), at a point of delivery designated by the Commission and/or at the Goods’ final destination. The Contractor shall give all reasonable facilities and assistance—including drawings and production data—to the Commission at no charge to the Commission.

(c) Should any inspected or tested Goods fail to conform to the technical specifications, the Commission reserves the right to reject them and the Contractor shall either replace the rejected Goods or make all alterations necessary to meet specification requirements free of cost to the Commission.

(d) The Commission’s right to inspect, test and, where necessary, reject the Goods after the Goods’ arrival at the point of delivery designated by the Commission or at the Commission’s offices, shall in no way be limited or waived by reason of the Goods’ having previously been inspected, tested and passed by the Commission.

(e) Nothing in this Section on Inspections and Tests shall in any way release the Contractor from any warranty or other obligations under the Contract.

(f) All equipment/material supplied under the Contract may be subject to pre-shipment inspection by a third party to be specified by the Commission. The Contractor is not liable for cost of this inspection.

30. PACKING

The Contractor shall comply or ensure compliance with the following provisions concerning packing:

(a) The Goods shall be packed as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit.

(b) In the case of a cross-border shipment, the Goods shall have appropriate export packing. If necessary, all cases/crates must be wrapped inside with heavy-duty plastic lined paper, should be steel-strapped and must be able to withstand tough handling. Skids for truck handling are imperative if the gross weight is more than 30 kilograms.

(c) The consignment shall be marked and shipped as per address shown on the Purchase Order Form.

(d) Neither partial delivery nor transhipment shall be made unless specifically agreed by the Commission in writing.

(e) Each case/crate/package shall carry a consecutive number, dimensions, volume, and weight (i.e. Case No. X of Y cases, A x B x C cm, E m³, D Kg.) and shall be marked as follows:
Markings shall be done with weatherproof materials. All non-containerized Goods shall be shipped below deck.

Each case/crate/carton shall carry (outside) a copy of the packing list describing the contents of the case/crate/carton. Outside Case No. 1 should be attached with invoice covering the actual delivery. The accompanying papers must be made out in the English language.

Prior to delivery, a fax (or a letter by courier service) shall be sent to the consignee, if any, advising of the following:
- purchase order/Contract number;
- waybill number or equivalent reference number of the shipment (if any);
- number of boxes/cartons/crates/etc.;
- estimated time of departure (ETD);
- point of departure and name of freight carrier;
- estimated time of arrival (ETA) to final destination.

The following documents shall be enclosed with the shipment in case of shipping by air:
- airway bill;
- proforma or commercial invoice;
- packing list.

The above documents are indispensable and must reach the consignee, if any, on time to permit customs clearance and in order to avoid demurrage charges.

31. DELIVERY AND TRANSPORTATION

(a) Delivery of the Goods shall be made by the Contractor in accordance with the terms specified in the Contract, and the Goods shall remain at the risk of the Contractor until delivery has been completed.

(b) Transport of the Goods to the port of discharge or such other point in the country of destination and/or forwarding to the consignee, if any, (door-to-door) specified in the Contract shall be arranged and paid for by the Contractor and the cost thereof shall be included in the Contract Price.

32. TAKE-OVER/HAND-OVER

Upon successful completion of delivery or of installation and a testing and evaluation period, as specified in the Contract, responsibility for the Goods will be handed over to the consignee or other designated entity.

33. EXPORT LICENCES

If an export licence or any other governmental authorization is required for the Goods, it shall be the obligation of the Contractor to obtain such licence or governmental authorization. In the event of failure to obtain such licence or authorization within reasonable time, the Commission may declare the Contract null and void.

34. SPARE PARTS

In accordance with the Contract, the Contractor may be required to provide any or all of the following materials and notifications pertaining to spare parts manufactured and/or distributed by the Contractor:

(a) Such spare parts as the Commission may choose to purchase from the Contractor, provided that the Contractor is not relieved of any warranty obligations under the Contract;

(b) In the event of termination of production of the spare after delivery of the Goods:
   (i) advance notification to the Commission of the pending termination, in sufficient time to permit the Commission to place a final order;
   (ii) following such termination, furnishing at no cost to the Commission, the blueprints, drawings and specifications of the spare parts, if and when requested.

35. UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS

Questions concerning matters arising under the Contract, but not settled in it, shall be settled in conformity with the United Nations Convention on Contracts for the International Sale of Goods (Vienna, 1980), which shall be applicable to the Contract. The applicable language version of the Convention shall be the version in which the Contract is written.

36. SUSTAINABLE BUSINESS PRACTICES

The Commission requires the Contractor and its personnel to:

(a) support and respect the protection of internationally proclaimed human rights1 and to observe the highest standards of ethics and integrity throughout its supply chains.

(b) abide by the United Nations Supplier Code of Conduct2.

(c) to take appropriate steps, whenever possible to perform its obligations in a manner that takes into account economic, environmental and social considerations.

(d) certify that they have not and will not engage in harassment or sexual harassment, proscribed practices or any further practice described in Clauses 37, 38, 39, 40


2 Available at https://www.un.org/Depts/ptd/about-us/un-supplier-code-conduct
and 41, during the procurement process and the performance of the Contract.

37. PREVENTION OF HARRASSMENT AND SEXUAL HARRASSMENT

(a) The Commission is committed to providing a professional work environment that upholds the highest standards of equality, respect and dignity for all. In this regard, and without limitation to any other provision contained herein:

(i) The Contractor shall adhere to zero tolerance for harassment and therefore accepts and agrees to refrain from any conduct which could, in the view of the Commission, meet the definition of harassment and/or sexual harassment. For the avoidance of doubt, “harassment” shall be understood as any improper or unwelcome conduct that might reasonably be expected or be perceived to cause offence or humiliation to another person when such conduct interferes with work, is made a condition of employment, or creates an intimidating, hostile or offensive work environment. “Sexual harassment” shall be understood as harassment of a sexual nature, and the above definition of harassment applies equally to sexual harassment. Sexual harassment may occur between persons of opposite sex or of the same sex.

(ii) The Contractor shall take all reasonable and appropriate measures to prevent and deter harassment and sexual harassment or abuse of anyone by its employees, agents, officials or any other persons engaged or controlled by the Contractor to perform the Services.

(iii) The Contractor shall promptly report to the Commission any actual, reported or suspected cases of harassment, sexual harassment or abuse of anyone by its employees, agents, officials or any other persons engaged or controlled by the Contractor to perform the Services. Such reports to the Commission may be on a no name basis, if necessary.

(iv) In addition to notifying the Commission pursuant to sub-clause (iii) above, on becoming aware of any allegation of harassment, sexual harassment or abuse of anyone, the Contractor shall take all reasonable and appropriate measures to address the matter, including engaging in good faith consultations with the Commission, while ensuring minimum impact and/or disruption of the Services.

(b) The Contractor acknowledges and agrees that any breach of the provisions of this Clause 37, as determined by the Commission, shall permit the Commission, at its sole discretion, to:

(i) Request the Contractor to remove, temporarily or permanently, from the relevant assignment, any Contractor’s personnel reported for having committed harassment, sexual harassment or abuse of anyone.

(ii) Terminate the Contract, and/or any other agreement, arrangement or partnership concluded by the Commission with the Contractor, immediately upon

written notice to the Contractor, without any liability for termination charges or any other liability of any kind, on the terms and conditions as are provided for in Clause 26 (Termination) above; and/or

(iii) Exclude the Contractor from participating in any ongoing or future solicitations, and/or entering into any future contractual or collaborative relationships with the Commission and/or suspend the Contractor from the Commissions supplier roster.

(c) The Commission shall be entitled to report any breach of the provisions of this Clause 37, as determined by the Commission, to the Commission’s governing bodies, other UN agencies and/or donors.

38. PROSCRIBED PRACTICES

The Commission requires that the Contractor and its personnel certify that they have not and will not engage in proscribed practices and proscribed conduct during the procurement process and the performance of the Contract. The Commission defines Proscribed Practices as follows:

Fraudulent practice: is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

Corrupt practice is the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;

Coercive practice is the impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of any party in order to influence the actions of that party;

Collusive practice is the proposing or entering into an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;

Unethical practice is conduct or behaviour that is contrary to the conflict of interest, gifts and hospitality, post-employment provisions or other published requirements of doing business with the Commission;

Obstructive practice is any act which deliberately and in an effort to compromise an investigation, destroys, falsifies, alters or conceals information or documents that may be relevant to a fraud and corruption investigation, or material that could become evidence as a result of such investigation; or the making of false statements to investigators during such an investigation.

39. CHILD LABOUR

The Contractor represents and warrants that neither it, its parent entities (if any), nor any of the Contractor’s subsidiary or affiliated entities (if any) is engaged in any practice inconsistent with the rights set forth in the Convention on the Rights of the Child, including Article 32 thereof, which, inter alia, requires that a child shall be
protected from performing any work that is likely to be hazardous or to interfere with the child’s education, or to be harmful to the child’s health or physical, mental, spiritual, moral or social development.

40. MINES

The Contractor represents and warrants that neither it, its parent entities (if any), nor any of the Contractor’s subsidiaries or affiliated entities (if any) is engaged in the sale or manufacture of anti-personnel mines or components utilized in the manufacture of anti-personnel mines.

41. TERRORISM

The Contractor shall ensure that none of the funds received from the Commission under the Contract are used, directly or indirectly, to provide support to individuals or entities subject to sanctions or other measures promulgated by the United Nations Security Council and appearing in the Consolidated United Nations Security Council Sanctions List. This provision shall be included in all subcontracts or sub-agreements entered into under the Contract.

42. FULL DISCLOSURE

(a) The Contractor will immediately notify the Commission upon becoming aware of any Proscribed Practices or other prohibited practices or conduct or suspicion thereof, as per Clauses 37-41, by itself or its personnel during the procurement process or the performance of the Contract. The Contractor will take all appropriate measures to prohibit and prevent its personnel from engaging in Proscribed Practices or any other prohibited conduct, as well as to investigate allegations thereof, or to take corrective action when such a Proscribed Practice or any other prohibited conduct has occurred.

(b) The Contractor further warrants that it is not the subject of any sanctions, or otherwise identified as ineligible by any government, supranational organization (e.g., European Union), another entity of the United Nations System or multilateral development finance institution. The Contractor will disclose to the Commission if it becomes subject to any sanction or temporary suspension during the term of the Contract. The Contractor recognizes that a breach of this provision constitutes a fraudulent practice.

43. DATA PROTECTION

(a) Use of the Commission’s data: Use (including accessing, processing, retention, storage) of the Commission’s data is limited to the purposes contained in the Contract and such use will be limited to Contractor’s personnel on a “need to know” basis. Use of the Commission’s data for internal research, marketing, sales, or promotional purposes is strictly prohibited. Subject to Clause 12 (Confidentiality), the Contractor will treat the Commission’s data as confidential and may neither disclose it nor make it available to any third-party except with the prior written authorization of the Commission.

(b) Compliance: The Contractor confirms that it has a data protection policy in place that meets applicable legal requirements and that it will apply such a policy to the Commission’s data, without prejudice to the privileges and immunities of the Commission. The Contractor will implement technical and organisational measures to ensure appropriate protection of the Commission’s data, in conformity with the abovementioned requirements and internationally recognised standards and best practices. In addition, the Contractor will:
(i) at its sole expense and risk, return, delete, or destroy all the Commission’s data, including data backups, upon written instruction of the Commission. The Commission will provide a reasonable period of time and take into account the Contractor’s legitimate interests, as well as the termination or expiration date of the Contract;
(ii) process, retain or store the Commission’s data exclusively in countries that are signatories to the Comprehensive Nuclear-Test-Ban Treaty and that ensure adequate legal protection of the Commission’s privileges and immunities; and
(iii) be liable for any resulting damages or penalties for its failure to comply with its obligations.
(c) Data security: Upon discovery of a data security breach, the Contractor will immediately notify the Commission and undertake at its sole expense to:
(i) propose immediate remedial actions (including containment);
(ii) implement, as directed by the Commission, all necessary damage mitigation and remedial actions;
(iii) where applicable, as directed by the Commission, restore the Commission’s and end-users’ access; and
(iv) keep the Commission informed of its progress.
(d) The Contractor, at its sole expense, will cooperate fully with any Commission investigation, remediation steps and response to a data security breach.

44. ESSENTIAL TERMS

The Contractor acknowledges and agrees that each of the provisions in Clauses 36 to 43 above constitutes an essential term of the Contract and that any breach of any of these provisions shall entitle the Commission to terminate the Contract or any other contract the Contractor has with the Commission, immediately upon notice to the Contractor, without any liability for termination charges or any other liability of any kind. Furthermore, the Commission is entitled to exclude the Contractor from participating in future tenders should the Contractor breach any of the provisions included in Clauses 36 to 43.
Annex B

Terms of Reference

Software Development and Maintenance of Geotool on a Call-off Basis
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1 INTRODUCTION

The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (hereinafter referred to as “the Commission” or “the CTBTO”) operates a global network of seismic, hydroacoustic, and infrasound (hereinafter referred to as “S/H/I”) stations that send time-series data to the International Data Centre (IDC) in Vienna, Austria. More information can be found under www.ctbto.org.

The data are automatically processed at the IDC shortly thereafter in real-time, and a series of automatic bulletins are generated. The final automatic bulletin is reviewed by human analysts, and the result of their work is published in the Reviewed Event Bulletin. All these bulletins, as well as the raw data from stations, are available to State Signatories of the Comprehensive Nuclear-Test-Ban Treaty (CTBT). The data and products can be analysed by State Signatories using software, which is freely provided to them by the Commission, under the so-called NDC-in-a-Box distribution. One of the main software packages provided by the Commission for this purpose is a software package named Geotool.

Geotool can be used to perform a number of analyses and review tasks, including data input/output/conversion, waveform filtering, quality control, component rotation, amplitude and arrival measurement and review, beamforming, correlation, Fourier analysis, FK analysis, event review and location, geographical map, particle motion visualization, polarization analysis, instrument response convolution/deconvolution, real-time display, signal to noise ratio measurement, spectrogram, and travel time display. There are also many options for positioning and displaying data. Data can be read in several different formats, including SAC, ASCII, CSS, SEED and miniSEED. The CSS format is based on a relational database schema, which is used by the Commission in Vienna. Data under this format can be used by Geotool as flat files in a file system or in a relational database such as Oracle or PostgreSQL. If a relational database is used, Geotool accesses data via an Open DataBase Connectivity (ODBC) interface.

Geotool integrates Python as a scripting language and several features of Geotool, such as an import mechanism to retrieve data from the Commissions Verification Data Messaging System (VDMS) data distribution system and from International Federation of Digital Seismograph Networks (FDSN) web services (https://www.fdsn.org/webservices/) have been implemented in Python. Geotool uses an integrated HTML rendering widget to provide for visualization of geo-located data on maps. This is accomplished through the integration of the Leaflet JavaScript library.

In terms of software source code, Geotool consists of two large packages of source code. The graphical part of the source is named Geotool, and it contains all the source code related to the graphical user interface. The graphical user interface of Geotool version 3 is based on the Qt toolkit. The non-graphical part of the source code is named gbase, and includes libraries for computation, data access, data processing, and parameter handling. The non-graphical package also includes a program named gpase, which can be run from the Linux command line. External libraries used by Geotool include those from the Qt toolkit, OpenGL, ODBC, netCDF, and threads. The software runs on the RedHat Enterprise Linux operating system and its derivatives (CentOS, Rocky Linux, Alma Linux, Oracle Linux, etc.) and was tested on CentOS version 7 and Rocky Linux version 9.
A previous version of Geotool, implemented using the Motif toolkit, will need to be maintained until CentOS version 7 reaches its end of support date (30 June 2024).

2 SCOPE OF WORK

This section breaks down the scope of Work into separate tasks.

Task 1. Maintain and Develop Geotool

In 2015 and 2016, the Commission carried out a feasibility study for the porting of the Geotool user interface from Motif to Qt. The result of this feasibility study was favourable and the Commission has implemented all features of Geotool Motif (version 2) using the Qt toolkit. Geotool version 3, which is fully based on the Qt toolkit, was released in September 2022.

The Contractor is expected to maintain Geotool version 3 and implement new features based on user requirements. For example, such improvements might include:
- Inter-operability with Seedlink servers to capture data in near real-time;
- Completion of the Python scripting integration to cover all functionality offered through the GUI.

The deliverables under this task are:
- Improved versions of Geotool – including functional improvements as well as issue resolutions;

The Commission expects to continue to release versions of the Qt-based Geotool software to authorized users as part of its NDC-in-a-Box distribution, while continuing to maintain (for backward compatibility) the Motif-based Geotool until it reaches its end-of-life, at the end of June 2024.

Task 2. End User Documentation

In Geotool version 3, under any popup window, there is a button for Help, but in several cases, the description still needs to be completed or improved.

Under this task, the Contractor is required to fill in and/or improve all the information and description of Geotool popup windows and give a concise description of the functionality of that particular popup.

To further improve the use of Geotool and address requests from new users, the Contractor shall update the Geotool user manual and produce text and video tutorials.

Task 3. Development of unit, integration and regression tests utilizing Gitlab CI/CD

The Contractor shall develop additional black-box tests for the command-line/interpreter interface of Geotool version 3.

These black-box tests shall be integrated into Gitlab CI/CD, the Commission's continuous
integrated and testing system.

Additionally, the Commission has developed a suite of integration tests based on the Squish software testing tool. The Contractor shall maintain and further develop this integration test suite.

3 METHODOLOGY, STANDARDS, AND TECHNOLOGY

The Contractor shall deliver software through incremental releases according to the Agile software development methodology (SCRUM). In particular, the Contractor shall follow the “Release Early, Release Often” (RERO) software development philosophy which emphasizes the importance of early and frequent releases in creating a tight feedback loop between developers, testers and users. Each new delivery shall include a description of what changes were made relative to the previous release, along with a list of files that were modified by each change.

The Contractor shall continue to use programming languages and technologies that Geotool is based on, specifically C, C++, Qt, any additional Qt widget library as agreed with the Commission, Python and Leaflet. Support for both Oracle and PostgreSQL databases must be continued.

The software delivered under this contract shall follow the IDC Coding Standards (which includes recommended coding style, the required implementation of unit tests, and use of open standards and open-source libraries where possible) and shall compile and run under the Linux operating system family (RHEL/CentOS 7.x or higher).

The software that the Contractor shall be working on is being maintained in the Git version control system and all software releases shall be delivered via this version control system.

The Commission has a change management process in place that covers reporting and tracking software problems, as well as releasing software updates in its Development, Testbed and Operational environments. An Integrated Ticketing System based on the JIRA software is used to support this change management process. The Contractor personnel shall familiarize themselves with this process and follow it when releasing software upgrades. The Contractor shall update the respective documentation to reflect changes caused by any upgrade to the software. All documentation shall adhere to the IDC Documentation Standards. Both standards mentioned above will be made available to the Contractor upon request after signature of the Contract.

4 ORGANIZATION OF WORK

The Commission will initiate the Work in the form of Work Orders (WO). These WOs will be the basis for initiating Work, the exact scope of Work, the deliverables, acceptance, invoicing, and payment of any Services performed by the Contractor.

4.1 Initiating Work

(a) Since the IDC follows the SCRUM software development methodology, Work Orders generally follow SCRUM sprints and are approximately 4 weeks long. A work order is therefore issued during a sprint planning meeting and the work items to be addressed in
that work order (sprint) are recorded in the Commission’s JIRA-based tracking system. Initiation of the Sprint constitutes the issuance of the WO. In case a work order is issued outside the framework provided by the SCRUM methodology, the Commission will provide the description of the work to be performed in writing to the Contractor and the Contractor shall respond with an estimate of the number of person-days required to complete the work and a delivery date. After acceptance of the estimate and delivery date, the Commission will issue the work order to the Contractor.

(b) Prior to issuing a WO, the Commission and the Contractor shall also agree on the place of work (on-site/off-site).

(c) Each WO shall be based on one (1) or more of the tasks described in section 2 above

(d) The Contractor shall perform Work only after receipt of the WO.

4.2 Completion and Acceptance

(a) At the end of a particular Work under the WO, the Contractor shall submit to the Commission the deliverables within the period of performance stated in the respective WO. The deliverables may include:

- Updated Software Design Documents;
- Updated Software User Guide;
- Description of how to use the programming interfaces developed under this Contract.
- Updated source code for software and common libraries, including documentation.

(b) Typically, in accordance with the SCRUM methodology, the Contractor will present the work performed during the sprint, including demonstrations of the newly developed software, during the Sprint Review meeting.

(c) The Contractor must record the time spent working on any assigned task in the JIRA tracking system.

4.3 Invoicing and Payment

The deliverables, after being evaluated and accepted as satisfactory by the Commission, and the recorded time will form the basis for invoicing and payment of a particular Work performed under a WO.

5 TERM OF CONTRACT AND OPTIONAL EXTENSIONS

The Commission shall have the right, but not the obligation, to call-off Work in the form of WOs during the Call-off Period. The maximum volume of Work under the Call-off Period will be limited to 220 person-days within a period of 12 months. This is an upper limit only, and the Commission reserves the right, at its sole discretion, to call-off less person-days or no person-days at all.

Before the expiry of the Call-off Period or the maximum number of the 220 man-days, whichever occurs first, the Commission shall have the option to extend the Call-off Period three (3) times, each for additional 12 months, under the same terms and conditions as specified in this Contract.
6 LOCATION OF PERFORMANCE

The Contractor’s staff may be required to spend up to 40 person-days (in total for all staff) per Call-off Period onsite at the Headquarters of the Commission in Vienna, Austria, mainly to get familiar with the particular (operational) environment of the Commission and to conduct any interviews deemed necessary by the Contractor with Commission staff under any of the relevant Tasks herein. The onsite days shall be agreed with the Commission prior to the issuance of the WO (see section 4.1 above). This will require that the Contractor mobilizes to the Headquarters of the Commission in Vienna up to 4 times per Call-off period. In such cases, if applicable, the Contractor shall be responsible to make all the travel arrangement for their staff. Daily Subsistence Allowance (DSA) shall be calculated based on the values provided by the International Civil Service Commission (ICSC) for Vienna, Austria (https://icsc.un.org/).

7 REQUIREMENTS FOR THE CONTRACTOR

7.1 Contractor’s requirements

The Contractor shall satisfy the following mandatory requirements:

1. A minimum of five (5) years experience in developing interactive applications for geophysical analysis;
2. A minimum of five (5) years experience in developing Qt applications in C++;
3. A minimum of two (2) years experience in preparing compelling end user and system design documentation;
4. A minimum of two (2) years experience with writing unit, integration and regression tests; and
5. A minimum of two (2) years experience in applying Agile methods to software development.

7.2 Contractor’s key personnel requirements

Each of the Contractor’s key staff performing work under this Contract must have at least the following qualifications:

1. University degree in computer science or in geophysics with a demonstrated and strong computing emphasis.
2. Minimum five (5) years of recent experience in software development using C and C++ as well as JavaScript and Python.
3. Minimum three (3) years recent experience developing geophysical applications using the Qt toolkit; Experience with Motif is an advantage.
4. Minimum three (3) years of recent experience using Linux as a software development platform, usage of RedHat derived distributions such as RedHat Enterprise Linux or Rocky Linux is an advantage.
5. Minimum of two (2) years experience with programming using 2D/3D scientific visualization libraries (for instance for time series, histograms, surface plots, scatter
plots) and web-based mapping libraries (such as Open Layers, Leaflet and/or CesiumJS);

6. Minimum of two (2) years experience with iterative and/or agile software development methodologies, SCRUM certification is an advantage.

7. Knowledge with S/H/I “NDC-in-a-Box” software development is an advantage.

(a) The Commission reserves the right to seek an immediate replacement for any Software Team member, who is found unsuitable for the assigned tasks as determined by the Commission. In such cases, the Commission will request a replacement Contractor staff, with equal or better qualifications and experience, to complete the tasks. If no suitable replacement consultant can be agreed upon, the Commission reserves the right to terminate the assignment of the unsuitable Software Team member with immediate effect. Continuity of staff is an important consideration. The Contractor shall therefore take necessary measures to ensure a seamless transition when taking over the services and keep changes to staff being assigned to the Commission to a minimum throughout the duration of the contract.

8 RESOURCES PROVIDED BY THE COMMISSION

For designated Contractor Personnel, and to the extent necessary for the Contractor to fulfil the requirements of these Terms of Reference when carrying out Work approved by the Commission on site, the Commission will provide:

(a) Infrastructure, including office space and standard office supplies, hardware, and software.

(b) Access to e-mail, telephone, and facsimile.

(c) Physical access to selected areas of the Vienna International Centre; however, strict conditions and limitations on access and use of any accessed code or documentation described above will apply as contained in the Contract. Access will be granted only upon request and approval by the relevant internal bodies.

(d) The Commission will make the relevant documentation available to the Contractor.

(e) The Commission will make qualified staff available to provide, assist and cooperate in responding to information requests from the Contractor to allow the Contractor to carry out the Work.

All other resources, be it for onsite or offsite Work, are to be provided by the Contractor.

Appendix A – Geotool Tutorial
Appendix B – IDC Database Schema
Appendix C – IDC Coding Standards