

Amendment 1 to
Request for Proposals
RFP-UESP-2021-018

Activity Title: “Consultancy Services for the Calculation of the Value of Lost Load, the Cost of New Entry and the Reliability Standard and Resource Adequacy Assessment and Capacity Remuneration Mechanism in Ukraine”

Issuance Date: April 21, 2021

Amendment issuance date: April 27, 2021

Deadline for Receipt of Questions: May 06, 2021 at 14:00

Closing Date and Time: May 21, 2021 at 14:00

(All changes through the text highlighted yellow)

Issuance of this RFP does not constitute an award commitment on the Tetra Tech ES, Inc., nor does it commit to pay for any costs incurred in preparation or submission of comments/suggestions of a proposal. Proposals are submitted at the risk of the offerors. All preparation and submission costs are at the offeror’s expense.

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1. INTRODUCTION

The purpose of this RFP is to solicit proposals for **Consultancy Services for the Calculation of the Value of Lost Load, the Cost of New Entry and the Reliability Standard and Resource Adequacy Assessment and Capacity Remuneration Mechanism in Ukraine** within the Scope of Work (SOW) specified in the Attachment A – Technical Specification within the Energy Security Project implementation funded by the U.S. Agency for International Development (USAID) and implemented by Tetra Tech ES, Inc. (Tetra Tech).

2. OFFEROR'S QUALIFICATIONS

Offeror must provide the following information and references in order to be qualified for the procurement process:

1. Company's information, including official registered title, type of business, address, and contact person information.
2. A short description of the company and of past similar experience in providing the services described in the Attached A -Technical Specification.
3. Overall technical approach to fulfill the specifications defined in Attachment A – Technical Specifications.
4. Certification that company is not owned or controlled in total or in part by any entity of any government.
5. Certification by any subcontractor engaged by the company for this project that the subcontractor is not owned or controlled in total or in part by any entity of any government.
6. The Offeror shall complete and sign the Representation and Certifications found in Attachments C to this document and include them with the Offeror's proposal. Proposals that do not include these certifications will not be considered.
7. A certificate of current cost or pricing data – Attachment D
8. Offerors listed in the Excluded Parties List System will not be considered. The Excluded Parties List can be found at <https://www.sam.gov/SAM/pages/public/searchRecords/searchResults.jsf>

3. SOURCE, ORIGIN AND NATIONALITY RESTRICTIONS

The USAID authorized geographic code for the Energy Security Project is 935. Code 935: Consists of any area or country including the cooperating country, but excluding the “prohibited sources”

Reference: USAID ADS Chapter 310, and all its sub-sections. These documents are available on the Internet.

4. SUBMISSION OF PROPOSALS

All proposals are due on **May 20, 2021** by no later than **14:00** local time in Ukraine. Proposals must be submitted via e-mail at the address **UESPprocurement@tetrattech.com** in the following formats: Adobe Acrobat and Microsoft Word and/or Excel.

All proposals must fully respond to the Technical Specifications enclosed as **Attachment A** and must include quotes in the format provided in the **Attachment B - Table 1 – Detailed Budget**. Proposals received after the above-stated due date and time will not be considered for this procurement.

5. QUESTIONS AND CLARIFICATIONS

All questions or clarifications regarding this RFP must be in writing and submitted, in English, to **UESPprocurement@tetratech.com** on **May 06, 2021** no later than **14:00** local time in Ukraine. Questions and requests for clarification, and the responses thereto, will be circulated to all RFP recipients.

Only written answers from ESP Procurement Office of Tetra Tech will be considered official and carry weight in the RFP process and subsequent evaluation. Any answers received outside the official channel, whether received verbally or in writing, from employees or representatives of Tetra Tech, or any other party, will not be considered official responses regarding this RFP.

6. PROPOSALS PREPARATION INSTRUCTIONS

All Offerors must follow the instructions set forth herein in order to be qualified for the procurement process. If an Offeror does not follow the instructions set forth herein, the Offeror's proposal may be eliminated from further consideration or the proposal may be downgraded and not receive full credit under the applicable evaluation criteria.

Separate Technical and Cost Proposals must be submitted. All proposals should be submitted in English and be signed by Offerors.

I. TECHNICAL PROPOSAL

The technical proposal (excluding CVs) shall not exceed **11** pages. Proposals will be scored on a 100-point scale. Available points for each evaluation factor are given below. Offerors must address each evaluation factor.

The suggested outline for the technical proposal is stated below:

A. Organization's Information (maximum 2 pages)

- Organization's information, including official registered title, type of business, list of offices if applicable, address, telephone, fax and website.
- Organization's DUNS number.
- Authorized point of Contact with phone number(s) and email address.

B. Company Technical Capability (maximum 2 pages)

Description of organization, including activities/qualifications carried out like the scope of work requested.

C. Technical Approach (maximum 3 pages)

Present a narrative that describes how the Offeror would implement the tasks identified in the scope of work. This narrative must also include:

- A management approach which describes how the Offeror will manage the delivery of the services and how the Offeror will interact with ESP.
- A draft work plan that outlines the proposed activities over the course of the period of performance.

- Proposed performance indicators to measure the impact of the Offeror’s planned activities and the progress of the Awardees as a result of the Offeror’s assistance.

Information which the Offeror considers proprietary, if any, should be clearly marked “proprietary” next to the relevant part of the text and it will then be treated as such.

D. Proposed Staff (maximum 2 pages, excluding CVs)

Present a narrative that includes the following:

- Team composition (names, specialties/area of expertise, position/role, etc.), with detailed bios, and task assignments to perform the activities described in the SOW.
- Curriculum Vitae (CV) for all labor categories named in the Attachment A. (CVs shall be limited to 3 pages each) that describes their experience and lists the following:
 - Affiliation/Organization
 - Education
 - Years of Professional Experience
 - Relevant Experience to the SOW in this RFP
 - Fluency in English

In addition to presenting the CVs, offerors should complete and include the table below:

Proposed Personnel’s Name, Last Name	Proposed Position Under This Assignment	Qualification	Years of Professional Experience

E. Company Past Performance (maximum 2 pages)

Offerors should provide a summary of relevant studies or other assignments including the Title, Client, Date, and a brief description. The qualifications section is limited to 5 of the most relevant studies or other assignments performed in the last 5 years, presented in the following table format. If the client is confidential, simply list “confidential”.

Project (task) name (title)	Description of the project (task) and services provided	Client name, phone number and email address	Dates of execution

II. FINANCIAL PROPOSAL

a. Detailed Budget

Offeror shall complete the **Table 1 of the Attachment B “Detailed Budget”** in order to allow Tetra Tech ES, Inc. to compare all quotes and make a competitive selection. The budget should be provided in Excel format with unlocked cells and formula.

A price must be provided for each project component to be considered compliant with this request. The price proposal should include the individual line items shown in the template, e.g., fully-burdened daily rates, travel costs, and other direct costs. Offers must show unit prices, quantities, and total price. All items, services, etc. must be clearly labeled and included in the total offered price. The price proposal shall also include a budget narrative that explains the basis for the estimate of every cost element or line item. Supporting information must be provided in sufficient detail to allow for a complete analysis of each cost element or line item. Tetra Tech reserves the right to request additional cost information if the evaluation committee has concerns of the reasonableness, realism, or completeness of an Offeror’s proposed price.

Offeror shall provide unit pricing in **US dollars (USD)**. Prices quoted in this document shall be valid for a 60-day time period, include all taxes and other costs but excluding the VAT tax originated in Ukraine.

b. 1420 Forms for the proposed personnel

For each staff member proposed, the Offeror shall submit a completed and signed USAID 1420 forms.

USAID form 1420 can be downloaded here: <https://www.usaid.gov/forms/aid-1420-17>

c. Proposed Billing Rates Certification

Document on company letterhead certifying the labor rates being proposed are standard rates and have been previously billed to clients for similar work.

d. Representations and Certifications

These documents can be found in Attachments C of this RFP and must be submitted as part of the Cost Proposal.

e. Non-government owned certification

Certification that company is not owned or controlled in total or in part by any entity of any government.

f. Certificate of current cost or pricing data

These documents can be found in Attachments D of this RFP and must be submitted as part of the Cost Proposal.

Under no circumstances may cost information be included in the technical proposal. No cost information or any prices, whether for deliverables or line items, may be included in the technical proposal. Cost information must only be shown in the cost proposal.

7. EVALUATION CRITERIA

Award will be made to the offeror representing the best value in consideration of past performance, qualifications, and price factors. Technical criteria are more important than cost, although prices must be reasonable and will be considered in the evaluation. Offeror are encouraged to provide a discount to their standard commercial rates.

Tetra Tech reserves the right to conduct discussions with selected offeror (s) in order to identify the best value offer. Award of any resulting Subcontract Agreement shall be made by Tetra Tech on a best value basis. Tetra Tech reserves the right to request a test assessment from offerors to assess their qualifications.

The submitted technical information will be scored by an evaluation committee using the following technical evaluation criteria (70 points) and cost proposal (30 points).

Given the specific expertise required to perform the services in question only offers with a technical score of 50 points or more will be considered for evaluation of their cost proposals.

Proposals will be scored on a 100-point scale. Available points for each evaluation factor are given below.

TECHNICAL PROPOSAL (70 POINTS)

Evaluation Criteria for Technical Proposal		Points
I.	Technical Approach	20
II.	Proposed Staff	20
III.	Company Past Performance	30
TOTAL		70

FINANCIAL PROPOSAL (30 POINTS)

The lowest qualified financial proposal will receive the maximum score of 30 points.

The other proposals will be scored inversely proportional to their price and computed as follows:

$$S_f = 30 * F_m / F$$

where

S_f = financial Score of the proposal evaluated

F_m = price of the lowest priced Financial Proposal among those qualified

F = price of the Financial Proposal under consideration

Offeror should submit a Detailed Budget reflecting the cost of completing the scope. Offerors shall complete the Attachment B – Detailed Budget. Labor rates quoted in this document shall be fully-burdened with all indirect costs, taxes and fee, if any. The period of performance is **10 months**.

Tetra Tech reserves the right to conduct discussions with selected offeror(s) in order to identify the best value offer. Award of any resulting Subcontract Agreement shall be made by Tetra Tech on a

best value basis, with evaluation of proposed price as well as proposed services and implementation schedule.

8. TERMS OF PAYMENT

Payment terms for the awarded Subcontract Agreement shall be forty-five (45) days after satisfactory completion and acceptance and of services and deliverables according to the schedule in the Table 2. Payment shall be made by Tetra Tech ES, Inc. via bank wire transfer in **Ukrainian Hryvnias** per National Bank of Ukraine exchange rate on the effective date of the subcontract **or US dollars**.

9. DUNS NUMBER AND SAM.GOV REGISTRATION

Active DUNS number or evidence of process of registering for DUNS number is required at stage of submitting proposal. DUNS Number shall be active and SAM.gov registration completed before finalization of subcontract agreement. All second-tier subcontractors must comply with the requirements outlined in the RFP, including obtaining DUNS and SAM numbers if the proposed second-tier subcontract price is above \$30,000. Only legal entities need DUNS numbers. Information regarding obtaining a DUNS number may be found here:

<https://fedgov.dnb.com/webform>

10. NEGOTIATIONS

Best offer proposals are requested. It is anticipated that a subcontract will be awarded solely on the basis of the original offers received. However, Tetra Tech reserves the right to conduct discussions, negotiations and/or request clarifications prior to awarding a subcontract. Furthermore, Tetra Tech reserves the right to conduct a competitive range and to limit the number of offerors in the competitive range to permit an efficient evaluation environment among the most highly-rated proposals. Highest-rated offerors, as determined by the technical evaluation committee, may be asked to submit their best prices or technical responses during a competitive range.

11. MULTIPLE AWARDS/NO AWARD

Tetra Tech ES, Inc. reserves the right to issue multiple awards. Tetra Tech ES, Inc. also reserves the right to issue no awards.

ATTACHMENT A – TECHNICAL SPECIFICATION

SCOPE OF WORK: Consultancy Services for the Calculation of the Value of Lost Load, the Cost of New Entry and the Reliability Standard, and Resource Adequacy Assessment and Capacity Remuneration Mechanism in Ukraine

PERIOD OF PERFORMANCE: 10 months

PLACE OF PERFORMANCE: Kyiv, Ukraine

1. Background

The purpose of the study is to identify resource adequacy concerns by assessing the overall adequacy of the Integrated Power System of Ukraine (IPS) to supply current and projected demand levels within a 10 years period in compliance with the methodology proposed by the Agency for the Cooperation of Energy Regulators (ACER). This study will consider two topological conditions for the IPS of Ukraine: 1) The IPS of Ukraine and Burshtyn energy island will be considered as separate bidding zones before the interconnection of the whole IPS of Ukraine with the European Network of Transmission System Operators for Electricity (ENTSO-E); 2) The IPS of Ukraine and Burshtyn energy island will be considered as one bidding zone after the interconnection of the IPS of Ukraine with ENTSO-E. Hereafter these two topological conditions will be referred to as “IPS of Ukraine”. This study will include an economic analysis of possible cost recovery problems for generators, and analysis of appropriate alternative capacity remuneration mechanisms (CRM).

The scope of activities also will include a country-wide customers survey to determine the value of lost load (VoLL) as a separate initial task.

2. Objectives

The objectives of this study are:

- Calculate the Value of Lost Load (VoLL), the Cost of New Entry (CONE), and the Reliability Standard (RS) for the IPS of Ukraine in accordance with Article 23 of the European Union (EU) regulation 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity of October 2nd, 2020.
- Provide a Resource Adequacy Analysis for the IPS of Ukraine in accordance with Article 23, 24 of the Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity using the methodology described in Annex 1 of ACER decision on the European Resource Adequacy Assessment (ERAA) methodology of 2 October 2020.
- Develop recommendations for RS that indicate the necessary level of security of supply to be set in Ukraine according to the article 25 of EU Regulation 2019/943.
- Develop recommendations for Capacity Remuneration Mechanism(s) addressing resource adequacy issues (if they were found) in the IPS.

3. Scope of Work

Task 1: Kick-off meeting

In close consultation with ESP, the consultant will prepare a presentation describing the tasks contained in this SoW and the Request For Information (RFI) for each task. The presentation and RFI must be agreed with ESP, NEURC and Ukrenergo.

As a result of this task, the consultant will submit to ESP a PowerPoint presentation and the RFI in Microsoft Excel templates. The presentation and RFI must be presented to ESP, Ukrenergo and NEURC.

Task 2 : Calculation of VoLL

The objective of the calculation of a single VoLL for the IPS of Ukraine pursuant to Article 11(1) of the Electricity Regulation is setting a RS in accordance with Article 25 of the Regulation.

The Contractor may use local subcontractors to conduct national-wide surveys of statistically representative samples of each consumer category (household, commerce or service sector, public service, small-medium enterprise, large enterprise, transport, others) to evaluate sectoral VoLLs in different inadequacy situations (specified in terms of duration(s), period(s) of occurrence and pre-notification period) using questionnaires based on the survey template for sectoral VoLLs provided in “Annex 1-Survey templates for sectoral VoLLs” translated in Ukrainian and adapted according to the Ukrainian sector specifics. The objective of the survey shall be explained to the interviewees at the beginning of the questionnaire and by answering interviewees’ questions. The contractor shall cross-check the sectoral VoLLs with other macro-economic evaluations.

After evaluating the sectoral VoLL of each category of consumers the contractor shall calculate the single VoLL for RS for a the IPS of Ukraine. The single VoLL for RS shall represent the most likely unit cost of supply interruptions implemented by the Transmission System Operator (TSO) in order to maintain the balance between capacity resources and demand (taking into account storage and the electricity grid). Such supply interruptions may affect the different categories of consumers in different proportions.

As a result of this task, the consultant must submit to ESP: 1) The completed survey questionnaires in English and Ukrainian; 2) A report and PowerPoint presentation on the VoLL calculation; 3) Sorted information from questionnaires in Microsoft Excel format.

The PowerPoint presentation must be presented to ESP, Ukrenergo and NEURC.

Task 3: Calculation of the CONE

For the purpose of calculating the reliability standard the Contractor shall calculate estimates of the $CONE_{fixed}$ and $CONE_{var}$ for generation, storage or demand side response in Ukraine over a ten-year period based on selected reference technologies with defined detailed technical characteristics and estimated capital costs and annual fixed costs and an appropriate WACC. The calculations shall be performed based on transparent, reliable, objective and verifiable information sources and criteria. For each reference technology, the contractor may compute either a single value of $CONE_{fixed}$ and $CONE_{var}$ to apply over the whole timeframe or different value for each of the years of the timeframe, to account for expected developments that may affect the economic and technical parameters that are used for calculating $CONE_{fixed}$ and $CONE_{var}$.

As a result of this task, the consultant must submit to ESP a report and PowerPoint presentation on the CONE calculation. The presentation must be presented to ESP, Ukrenergo and NEURC.

Task 4: Calculation of the RS

The RS shall express the level of security of supply which maximizes the socioeconomic surplus over a given timeframe. At this level of security of supply, the incremental cost of additional capacity resource is equal to the incremental saving of load curtailments to customers. For the IPS of Ukraine, the calculated RS shall be equal to the Loss of Load Expectation (LOLE) target for RS. The calculation of the LOLE threshold per reference technology shall be based on the methodology described in Annex 1 of the ACER Decision on the Methodology for calculating the VoLL, CONE, and RS.

In close consultation with ESP and NEURC, the Contractor may recommend to calculate a different value of the RS for each year of this timeframe, in order to reflect expected changes in the values underlying the target LOLE for RS or calculate a single value of the RS for the whole timeframe. The contractor would recommend the best option according to its experience. In this case, the single RS value shall be equal to the target LOLE for RS computed and considering the average values of CONE and single VoLL for RS over the given timeframe for each reference new entry or renewal/prolongation. The calculation may provide an uncertainty range to reflect the uncertainty of the used values.

In addition, the subcontractor will provide recommendations for RS that indicate the necessary level of security of supply to be set in Ukraine according to the article 25 of EU Regulation 2019/943.

As a result of this task, the consultant must submit to ESP a report and PowerPoint presentation on the RS calculation. The presentation must be presented to ESP, Ukrenergo and NEURC.

Task 5: Resource Adequacy Analysis (RAA)

Resource Adequacy analysis aims to evaluate the power system's available resources and projected electricity demand to identify supply/demand mismatch risks under a variety of scenarios. ENTSO-E implements a probabilistic Mid-term Adequacy Forecast (MAF) analysis methodology which is considered a reference within Europe. Scope of Task 4 is to perform the resource adequacy analysis for the IPS in Ukraine based on this ENTSO-E methodology and considering the total system generation, energy storage, demand response, and the effects of transmission constraints in the form of Net Transfer Capacities (NTC). The analysis should be conducted in accordance with Articles 20-26 of the Regulation (EU) 2019/943.

In line with the ENTSO-E methodology;

- The consultant will prepare the Resource Adequacy analysis, which considers the total system generation, energy storage, demand response, and the effects of transmission constraints in the form of NTCs for different scenarios of load and market development (1 main scenario and up to 4 sensitivities). These scenarios must be proposed by the consultant and agreed with NEURC.

- Market simulations in hourly resolution will be performed along the study horizon (10 years) based on demand projection and merit order of the power plants in terms of short-run marginal costs (SRMC). Detailed analysis is required at the beginning, middle and the end of the horizon.
- Generation outage scenarios should be developed by Monte Carlo simulations.
- Results will be provided in terms of Expected Energy Not Served (EENS) and Lost of load expectation (LOLE) in probabilistic manner.

The consultant will identify accordingly any potential adequacy gaps in the IPS of Ukraine and potential measures and remedies which would not require a national capacity remuneration mechanism but could be implemented within an energy-only market. This should include reforms of national rules and regulation, economic viability analysis to assess whether the expected capacity investment /retirement/mothballing decisions are economic based on the estimated revenues across the energy and ancillary services markets, and effects that can be gained from alignment with EU Member States interconnected to the IPS of Ukraine.

As a result of this task, the consultant must submit to ESP: 1) A report and PowerPoint presentation on the RAA; 2) Recommendations, potential measures and remedies which would not require a national capacity remuneration mechanism in the form of a concept document, sufficiently detailed and include key features to be implemented; 3) the technical and economic database used to perform the RAA in original format.

The PowerPoint presentation must be presented to ESP, Ukrenergo and NEURC.

Task 6. Capacity Remuneration Mechanisms (CRM)

Depending on the findings of Task 4, the consultant will develop recommendations for CRMs that would address the resource adequacy issues, outlining also the specific issues or concerns addressed, be it long, medium or short-term adequacy, flexibility issues, etc. Recommendations should be in the form of a concept document, sufficiently detailed and include key features of the mechanism(s) to be implemented. Recommendations should be in line with Regulation (EU) 2019/943.

As a result of this task, the consultant must submit to ESP: 1) A report and PowerPoint presentation on the CRM; 2) Recommendations for CRMs that would address resource adequacy issues in the form of a concept document, sufficiently detailed and include key features to be implemented.

The PowerPoint presentation must be presented to ESP, Ukrenergo and NEURC.

Task 7. Final report and presentation

The consultant will submit to ESP a final report and presentation considering the overall study. The PowerPoint presentation must be presented to ESP, Ukrenergo and NEURC.

4. Specific details

For the necessary input data required for all described task, a questionnaire will be prepared by the Consultant and submitted to NEURC and TSO (Ukrenergo). The consultant must be prepared to receive information in Power Factory format and some information in Ukrainian or Russian language. The consultant will assess data provided by NEURC and use engineering assumptions if necessary, upon confirmation by NEURC or Ukrenergo.

The consultant, previous of conducting the RAA, the consultant the consultant must ensure that technical models reflect the operation of the IPS of Ukraine.

5. Deliverables and Due Dates

The successful offeror shall deliver to Tetra Tech the following, in accordance with the schedule set forth below.

Deliverable Number	Deliverable Name	Due Date
1	D1. Kick-off meeting. Power point presentation and Data request.	3 weeks after subcontract signing.
2	D2. 1) The completed survey questionnaires in english and Ukranian; 2) A report and PowerPoint presentation on the VoLL calculation; 3) Sorted information from questionnaires in Microsoft Excel format.	6 months after contract signing
3	D3. Report and PowerPoint presentation on CONE calculation.	7 months after subcontract signing.
4	D4. Report and PowerPoint presentation on RS calculation.	7 months after subcontract signing.
5	D5. 1) A report and PowerPoint presentation on the RAA; 2) Recommendations, potential measures and remedies which would not require a national capacity remuneration mechanism in the form of a concept document, sufficiently detailed and include key features to be implemented; 3) the technical and economic database used to perform the RAA in original format.	10 months after subcontract signing.
6	D6. 1) A report and PowerPoint presentation on the CRM; 2) Recommendations for CRMs that would address resource adequacy issues in the	10 months after subcontract signing.



	form of a concept document, sufficiently detailed and include key features to be implemented.	
7	D7. Final report and presentation.	10 months after subcontract signing.

ATTACHMENT B – DETAILED BUDGET
PROPOSED DETAILED BUDGET
TABLE 1 – Overall Subcontract Detailed Budget

Cost element	unit cost	Total units	cost
Total Direct Labor			
LABOR (rate; level of effort; total)			
Title,Labor Category - Name, Last Name (Full time / Short Term)	\$0.00	days	\$ -
Title,Labor Category - Name, Last Name (Full time / Short Term)	\$0.00	days	\$ -
Title,Labor Category - Name, Last Name (Full time / Short Term)	\$0.00	days	\$ -
Title,Labor Category - Name, Last Name (Full time / Short Term)	\$0.00	days	\$ -
Subtotal Direct Labor			\$ -
Travel, Transportation & Per Diem			
Airfare	\$0	0 trips	\$ -
Per Diem Meal	\$0	0 days	\$ -
Per Diem Lodging	\$0	0 days	\$ -
Travel Miscellaneous	\$0	0 trips	\$ -
Insurance	\$0	0 people	\$ -
Local Ground Transportation	\$0	0 days	\$ -
Communications	\$0	0 trips	\$ -
Subtotal Travel, Transportation & Per Diem			\$ -
Other Direct Costs/Інші прями витрати			
Subtotal Other Direct Costs			\$ -
TOTAL ESTIMATED COST			\$ -

*LOE = Level of Efforts, budgeted number of days assigned for the work

Rate = fully loaded daily rate

Prices quoted must be valid for **60** days, and account for ALL remuneration, per diem, travel, communications, report reproduction and other out-of-pocket expenses, taxes and other costs, but excluding the VAT tax that may be originated in **Ukraine**. On this basis Tetra Tech will issue a **Fixed Price Subcontract**, and payment shall be based upon acceptance of services and deliverables described in the Table 2.

TABLE 2 – Payment schedule

Offeror Deliverable	Expected Due Date	Fixed Price Payment Amount
D1. Kick-off meeting. Power point presentation and Data request.		10%
D2. 1) The completed survey questionnaires in english and Ukrainian; 2) A report and PowerPoint presentation on the VoLL calculation; 3) Sorted information from questionnaires in Microsoft Excel format.		25%
D3. Report and PowerPoint presentation on CONE calculation.		10%
D4. Report and PowerPoint presentation on RS calculation.		10%
D5. 1) A report and PowerPoint presentation on the RAA; 2) Recommendations, potential measures and remedies which would not require a national capacity remuneration mechanism in the form of a concept document, sufficiently detailed and include key features to be implemented; 3) the technical and economic database used to perform the RAA in original format.		20%
D6. 1) A report and PowerPoint presentation on the CRM; 2) Recommendations for CRMs that would address resource adequacy issues in the form of a concept document, sufficiently detailed and include key features to be implemented.		10%
D7. Final report and presentation.		15%

ATTACHMENT C – REPRESENTATIONS AND CERTIFICATIONS

Offeror Representations and Certifications

1. Organizational Conflict of Interest Representation

The offeror represents, to the best of its knowledge and belief, that this award:

does [] or does not [] involve an organizational conflict of interest.

Please see FAR 52.209-8 for further explanation.

2. Data Universal Numbering System (DUNS) Number (required if cost proposal is more than USD \$30,000)

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(please use one box per number or dash)

3. Source and Nationality of Goods and Commodities

(i) This is to certify that the Offeror is:

- a. an individual who is a citizen or legal resident of _____.
- b. a corporation or partnership organized under the laws of _____.
- c. a controlled foreign corporation of which more than 50% of the total combined voting power of all classes of stock is owned by United States shareholders; or
- d. a joint venture or incorporated association consisting entirely of individuals, partnerships or corporations. If so, please describe separately the citizenship or legal status of the individuals, the legal status of the partnership or corporations, and the percentage (%) of voting power of the corporations.

(ii) This is to certify that the **Source** (the country from which a commodity is to be shipped from) of the Equipment to be supplied under this Order is:

name of country or countries

4. 52.204-24 Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2020).

The Offeror shall not complete the representation at paragraph (d)(1) of this provision if the Offeror has represented that it “does not provide covered telecommunications equipment or services as a part of its offered products or services to the Government in the performance of any contract, subcontract, or other contractual instrument” in the provision at [52.204-26](#), Covered Telecommunications Equipment or Services—Representation, or in paragraph (v) of the provision at [52.212-3](#), Offeror Representations and Certifications-Commercial Items.

(a) *Definitions.* As used in this provision—

Backhaul, covered telecommunications equipment or services, critical technology, interconnection arrangements, reasonable inquiry, roaming, and substantial or essential component have the



meanings provided in the clause [52.204-25](#), Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment.

(b) Prohibition.

(1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract or extending or renewing a contract with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract. Nothing in the prohibition shall be construed to—

(i) Prohibit the head of an executive agency from procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(ii) Cover telecommunications equipment that cannot route or redirect user data traffic or cannot permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(c) Procedures. The Offeror shall review the list of excluded parties in the System for Award Management (SAM) (<https://www.sam.gov>) for entities excluded from receiving federal awards for “covered telecommunications equipment or services”.

(d) Representation. The Offeror represents that—

(1) It will, will not provide covered telecommunications equipment or services to the Government in the performance of any contract, subcontract or other contractual instrument resulting from this solicitation. The Offeror shall provide the additional disclosure information required at paragraph (e)(1) of this section if the Offeror responds “will” in paragraph (d)(1) of this section; and

(2) After conducting a reasonable inquiry, for purposes of this representation, the Offeror represents that—

It does, does not use covered telecommunications equipment or services, or use any equipment, system, or service that uses covered telecommunications equipment or services. The Offeror shall provide the additional disclosure information required at paragraph (e)(2) of this section if the Offeror responds “does” in paragraph (d)(2) of this section.

(e) *Disclosures.*

(1) Disclosure for the representation in paragraph (d)(1) of this provision. If the Offeror has responded “will” in the representation in paragraph (d)(1) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the original equipment manufacturer (OEM) or a distributor, if known);

(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the Product Service Code (PSC) of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(1) of this provision.

(2) Disclosure for the representation in paragraph (d)(2) of this provision. If the Offeror has responded “does” in the representation in paragraph (d)(2) of this provision, the Offeror shall provide the following information as part of the offer:

(i) For covered equipment—

(A) The entity that produced the covered telecommunications equipment (include entity name, unique entity identifier, CAGE code, and whether the entity was the OEM or a distributor, if known);



(B) A description of all covered telecommunications equipment offered (include brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); and

(C) Explanation of the proposed use of covered telecommunications equipment and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

(ii) For covered services—

(A) If the service is related to item maintenance: A description of all covered telecommunications services offered (include on the item being maintained: Brand; model number, such as OEM number, manufacturer part number, or wholesaler number; and item description, as applicable); or

(B) If not associated with maintenance, the PSC of the service being provided; and explanation of the proposed use of covered telecommunications services and any factors relevant to determining if such use would be permissible under the prohibition in paragraph (b)(2) of this provision.

By signing below, the Offeror certifies that the representations and certifications made, and information provided herein, are accurate, current and complete.

Signature: _____ Date: _____

Name of and title of authorized signature: _____



ATTACHMENT D – CERTIFICATE OF CURRENT COST OR PRICING DATA

This is to certify that, to the best of my knowledge and belief, the cost or pricing data (as defined in section 2.101 of the Federal Acquisition Regulation (FAR) and required under FAR subsection 15.403-4) submitted, either actually or by specific identification in writing, to Tetra Tech in support of [Firm/Organization] are accurate, complete, and current as of [DATE]. This certification includes the cost or pricing data supporting any advance agreements and forward pricing rate agreements between the offeror and the Government that are part of the proposal.

Firm: _____

Signature: _____