

# REQUEST FOR PROPOSAL

## MULTI-MATERIAL TOPOLOGY OPTIMIZATION FOR LIGHT WEIGHT DESIGN OF ELECTRIC ENGINE

September, 2024



**Korea Aerospace Research Institute**

169-84 Gwahak-ro, Yuseong-gu,  
Daejeon, 34133, Republic of Korea

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# Part I. Introduction

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## 1.1 Hybrid Electric Propulsion (HEP) System Development Project

Korea Aerospace Research Institute (hereinafter “KARI”), a government-funded research institute is responsible for the development of Hybrid Electric Propulsion (HEP) system.

## 1.2 Objective of RFP

KARI is issuing this Request for Proposal (hereinafter “RFP”) to Bidders who are willing to collaborate with KARI in successfully performing the multi-material topology optimization for the light weight design of an electric engine. This RFP document explains the procedures to be undertaken by Bidders seeking to respond to the RFP for related services. This RFP also details the requirements, terms, and conditions for the proposal and contract.

## 1.3 Contract Concepts

In the phase of the issuance of RFP, this RFP is written and issued by KARI. The contract will be made with one contractor who satisfies the scope of RFP with the experience and ability of research and submit the lowest bid price.

In the evaluation and contract phases, Bidder’s Proposal will be evaluated by the evaluation committee according to the related rules.

## 1.4 Schedule of Contract

- 2024. 10 [TBC] : Completion of contract between KARI and bidder [TBC]
- 2024. 11 [TBC] : Kick-off meeting [TBC]
- 2024. 11 [TBC] : Interim presentation [TBC]
- 2024. 12 [TBC] : Submission of final report [TBC]
- 2024. 12 [TBC] : Final presentation [TBC]

## 1.5 Terminology

Unless otherwise specified elsewhere, the following terms as used herein shall have the meaning as assigned to them:

**1.5.1 Bid** means solicitation of KARI for the submittal of the Proposal in response to the RFP.

**1.5.2 Bidder(s)** means person(s) or corporation(s) who submits the Proposal in response to the RFP.

**1.5.3 Contract** means a contract to be executed between KARI and Contractor for the multi-

material topology optimization for the light weight design of an electric engine pursuant to the RFP.

- 1.5.4 Contractor** means the party who has entered into the Contract.
- 1.5.5 KARI** means Korea Aerospace Research Institute as designated by the government of the Republic of Korea ("Korea") for the issuance of the RFP.
- 1.5.6 Proposal** means any set of documents effectively submitted by a Bidder in response to this RFP.
- 1.5.7 RFP or Request for Proposal** means all documents, including those attached or incorporated by reference, used for soliciting Proposal as set forth in Section 2.2 (Structure of the RFP) of Part II of the RFP.
- 1.5.8 Successful Bidder** means the Bidder with the lowest Bid Price in the price evaluation, after having passed technical evaluation, who is expected to formalize a Contract in Annex B hereof.
- 1.5.9 TBD** means "To Be Determined" by KARI before the award of the Contract.
- 1.5.10 TBC** means "To Be Confirmed" mutually by KARI and Bidder as to any requirements suggested.



## Part II. General Instruction to Bidder

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## 2.1 Purpose

This section describes the requirements for preparing and submitting the Bidder's Proposals in response to this RFP.

## 2.2 Structure of the RFP

This RFP consists of the following Parts:

Part I	Introduction
Part II	General Instruction to Bidders
Part III	Technical Requirements
Part IV	Statement of Work
Annex A.	Suggested Proposal
Annex B.	Terms and Conditions

Part I provides introduction to this RFP document.

Part II illustrates general instructions for the preparation and submission of the Proposal, and principles of evaluation of the Proposal.

Part III outlines conceptual design of a hybrid propulsion system and electric engine nacelles.

Part IV states the Statement of Work, which shall be provided by the Contractor to KARI during the entire course of Contract. This Statement of Work will be the baseline for the Contract.

Annex A outlines the Bidder how to develop the Proposal.

Annex B presents the baseline of the general terms and conditions, which is the basic guideline for the Bidder to prepare the Proposals and for KARI, and the Contractor to form the Contract.

## 2.3 Qualification of Bidder

**2.3.1** Bidder shall have demonstrated track records in the multi-material topology optimization for the light weight design of an electric engine.

**2.3.2** The qualifying statement for the above requirements and support materials shall be provided in the Proposal.

## 2.4 Submittal of Proposal

### 2.4.1 Proposal Documents

Bidder shall submit their Proposals in the following four (4) Volumes as presented in Annex A, Suggested Proposal, with any other required certificate and evidences under the RFP.

Volume 1.	Executive Summary
Volume 2.	Technical Proposal
Volume 3.	Statement of Work Proposal
Volume 4.	Price Proposal (to be sealed in a separate envelope)

The detailed instructions for each Volume can be founded in the Suggested Proposal given in Annex A of this RFP. It is recommended that Bidders submit the Proposals in the same sequence as enlisted in the Suggested Proposal.

A4 size paper shall be used. If the larger paper should be used for the explanation, foldout can be used.

### 2.4.2 Number of Copies

Bidders shall submit one (1) original hardcopy marked as “ORIGINAL COPY” on the cover and six (6) duplicate hardcopies, without Volume 4 Price Proposal. For Volume 4 Price Proposal, only one (1) hardcopy shall be submitted in a separate envelope. In addition, the electronic files of the Proposal in Microsoft Office Word for Windows and Portable Document Format (PDF) shall be submitted (except for Volume 4 Price Proposal). In order to substantiate a Proposal, all relevant data shall be submitted as attachments.

In case of any discrepancy between the original copy and electronic file or the other hardcopies, the original copy, which is marked as “ORIGINAL COPY” on the cover, shall prevail.

### 2.4.3 Bid Closing Date

The closing date and time for the Proposal is specified in the notice of this Bid (“Bid Closing Date”). If any part of the Proposal or the bid bond as required under this RFP is received by KARI after the stipulated closing time, the entire Proposal will be rejected.

### 2.4.4 Method of Submittal

The Proposal shall be hand-carried or delivered using a registered mail service to the following KARI personnel or his designee:

Mr. Won-Suk LEE  
Overseas Contracts Office

Korea Aerospace Research Institute  
169-84 Gwahak-ro, Yuseong-gu  
Daejeon, 34133, Korea  
Tel) +82-42-860-2406  
e-mail) wsl@kari.re.kr

The communication between KARI and Bidder for contractual matters (Terms and Conditions) shall be controlled through the following designee:

Mrs. Eun-Jung Lee  
Overseas Contract Office

Korea Aerospace Research Institute  
169-84 Gwahak-ro, Yuseong-gu  
Daejeon, 34133, Korea  
Tel) +82-42-860-2148  
e-mail) monicalee@kari.re.kr

#### **2.4.5 Point of Contact**

Besides the Proposal submission, the point of contact for all communications for technical matters shall be

Dr. Jae-Sung HUH  
Aeropropulsion Research Division

Korea Aerospace Research Institute  
169-84 Gwahak-ro, Yuseong-gu  
Daejeon, 34133, Korea  
Tel) +82-42-860-2831  
e-mail) jshuh@kari.re.kr

Bidder shall specify its single point of contact in the Volume I of its Proposal, "Executive Summary", for KARI to communicate in connection with the RFP, Proposal and the subsequent evaluation. Bidder's information on the point of contact shall include the name, title/position, telephone no., and e-mail address.

### 2.4.6 Bid Bond

Bidder shall establish a bid bond in accordance with the bid notice for this RFP.

## 2.5 Bidding Schedule

**2.5.1** The following schedule is a tentative milestone for the eventual Contract and may be changed at KARI's sole discretion:

- [1] Bid Notice and RFP Release: T0
- [2] Bid Closing Date:  $T1 = T0 + 30$  calendar days
- [3] Evaluation of Proposal:  $T2 = T1 + 10$  calendar days
- [4] Expected Contract Date:  $T3 = T2 + 10$  calendar days

## 2.6 Questions and Modifications

**2.6.1** Any questions as to the intent and clarity of the RFP may be directed to KARI's point of contact as specified in Section 2.4.4 & 2.4.5 of the Part II of this RFP by e-mail, and shall be received no later than five (5) days before the Bid Closing Date.

**2.6.2** KARI may ask a Bidder in writing for clarifications, amendments, revisions, or supplementation of the Proposal and any other documents submitted by Bidder at any time before the execution of the Contract. KARI may also ask Bidder to submit and supply additional information or documents necessary for evaluation of the Proposal.

**2.6.3** After the Bid Closing Date, Bidder shall not amend, modify, or supplement the Proposal, or submit any other documents to KARI, except with KARI's written request.

## 2.7 Acceptance/Rejection of Bids

KARI reserves the right to accept or reject any Bidding, and to amend the Bidding process and reject all Biddings at any time prior to the award of the Contract without thereby incurring any liability to the affected Bidder, and KARI is not under any obligation to inform the affected Bidder of the ground for its action.

## 2.8 Evaluation of Proposal

The evaluation of the Proposals will be made by the evaluation committee, which will be acting through KARI.

The following evaluation process is for information only, and the evaluation committee reserves the right to modify the evaluation process and criteria without any prior notification to Bidders.

## **2.8.1 Evaluation Process**

- 2.8.1.1** During the Bid evaluation, KARI may send to Bidders a set of questions for clarification and request any supplement to the Proposals and the evaluation will be made based on the Proposal, the answers to KARI questions and the supplement received from Bidders. The Proposal which is improvable, unrealistic, unreliable or based on vague presumptions shall not get good scores.
- 2.8.1.2** The evaluation shall be in two (2) stages: the technical evaluation and the price evaluation. First, technical proposals shall be evaluated by the evaluation committee in order to select the Bidders technically qualified to perform the work under this RFP. The total score for technical proposal is one hundred (100) points and the Bidders with eighty (80) points or higher shall be considered in the next stage of price evaluation. In the second stage, the Bidder with the lowest bid price which shall be less than or equal to KARI's estimated budget will be selected as the Successful Bidder.
- 2.8.1.3** Subject to an evaluation of the Proposal, the evaluation committee will judge whether Bidder provides Proposal enough to meet the requirements in this RFP.
- 2.8.1.4** The result of evaluation is at the proposal evaluation committee's discretion based on evaluation process and Bidders shall not raise any objection regarding the proposal evaluation committee's decision thereupon.

## **2.9 Contract**

- 2.9.1** The Terms and Conditions as presented in Annex B of this RFP is the baseline requirement for the Contract with the Successful Bidder, and will be the basis of the Contract.

## **2.10 Language and Measurement Unit**

- 2.10.1** The Proposal and any documents submitted to KARI under the RFP and communication and the Contract language shall be in English.
- 2.10.2** "Système Internationale" (SI, hereafter) units shall be used for measurements and quantities in the Proposal and all the accompanying documents. However, British unit of power and weight could be used as a complementary unit. In this case, SI unit comes first and British unit shall be put in parentheses.

## **2.11 Pricing Requirements**

- 2.11.1** Any price or rate for Contract shall be firm and fixed, not subject to change for a price escalation for the entire period of the Contract. Therefore, the proposed price shall reflect possible fluctuations in labor costs, material prices and others. The Contractor shall not demand to reflect the fluctuation on the Contract.
- 2.11.2** Any kinds of taxes and duties arising in connection with Bidder's work under this RFP and under the eventual Contract shall be Bidder's responsibility, except for the customs duties and VAT levied in Korea and the price shall be inclusive of any cost or charge incurred due to delivery of any hardware, software, equipment, spare parts, and documentation to KARI or its designated point of delivery.
- 2.11.3** The currency quoted in the Price Proposal shall be expressed in the same currency used in KARI's bid notice for this RFP. However, other currency may be allowed. If Bidder's proposed price is in a currency other than the currency of the estimated budget specified in KARI's bid notice of this RFP, then for the conversion of the Bidder's proposed price, the 1st basic exchange rate announced by KEB Hana Bank on the price evaluation date shall be used.
- 2.11.4** Likewise, the currency of the Contract may be Contractor's national currency within the value of Bidder's bid price, in which case, the 1<sup>st</sup> basic exchange rate announced by KEB Hana Bank on price evaluation date shall be applied for the exchange rate for currency change.
- 2.11.5** Bidder shall include all cost items to cover all activities in the Proposal and itemize requested items.
- 2.11.6** Korean corporation tax (hereinafter referred to as 'Applicable Tax') in Korea will be withheld under the Contract. Therefore, KARI shall withhold the Applicable Tax and pay to the relevant Korean taxing authority on behalf of Contractor in accordance with applicable Korean law and international tax treaty between Korea and Bidder's country. After paying the Applicable Tax to the relevant Korean taxing authority, KARI will convey the certificate of the withholding Tax to Contractor within ninety (90) days of such payment.

## **2.12 Confidentiality**

- 2.12.1** There shall be no news releases, public announcements, denials or confirmation in connection with this RFP or contract award without prior written approval of KARI. Also, Bidder shall not disclose any part of this RFP to third parties without prior written approval of KARI.
- 2.12.2** All documentation submitted in response to this RFP shall be marked "COMMERCIALS-IN-CONFIDENCE" on the first page of each document. All elements of the RFP shall be kept confidential, and shall not be intentionally disclosed by Bidder to third parties.



### **2.13 Proprietary Rights**

KARI shall have the irrevocable, royalty-free, and exclusive right to use any data and the results of the multi-material topology optimization for the light weight design of an electric engine.

### **2.14 Withdrawal of Proposal**

Bidder may withdraw its Proposal at any time before the Bid Closing Date. Withdrawal shall be made in writing, and shall be received by KARI before the Bid Closing Date.

### **2.15 Property of Proposal**

All documents submitted in response to the RFP shall become the property of KARI and will be retained by KARI.

### **2.16 Expenses**

Expenses incurred by Bidder in connection with the preparation, submittal, and any subsequent clarification or any other activities for this Bidding are for their own account and will not be reimbursed by KARI.

### **2.17 Governing Law**

This RFP and the Contract shall be construed in accordance with and governed by the laws of the Republic of Korea.

### **2.18 Certificate and Government Approval**

Bidders shall obtain the government approval and certificates (e.g. export licenses) in relevant countries, if any, necessary for Bidder's work for this Proposal. Bidder's ability and plan to get such approval and certificates shall be submitted to KARI, together with any appropriate assurance letters from the relevant governments, in the proposal.

### **2.19 Arbitration**

Any disputes arising out of or in connection with this RFP and Contract shall be finally settled by arbitration in Seoul, Korea, in accordance with the International Arbitration Rules of the Korean Commercial Arbitration Board.

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## Part III. Technical Requirements

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### 3.1 Project Information

A Hybrid Electric Propulsion (HEP) system development project launched in 2021 is a basic technology R&D project which is led by Korea Aerospace Research Institute and funded by the ROK government. This project was initiated by the needs of adopting a gas turbine engine based-hybrid electric propulsion system for a long endurance and high payload eVTOL (e-Vertical Take-Off and Landing). All electric VTOL is known as to have limitations of payload and range due to restricted energy density of Li-Ion battery. The goal of this project covers to establish an optimal design of the hybrid electric propulsion system and to do the HEP system performance test at a newly constructed ground test facility. The HEP system has many components such as a turboshaft engine, a generator, a rectifier, several battery packs, motors, inverters, heat exchangers, and etc. It requires the light weight design using DfAM (Design for Additive Manufacturing). Therefore, this technical project will cover the multi-material topology optimization for the light weight design of an electric engine.

### 3.2 Introduction

#### 3.2.1 Conceptual design of a hybrid propulsion system

A schematic design of a series hybrid propulsion system is shown in Fig. 1, and in general, the system features a couple of cruise propellers (or prop-rotors) and several lift prop-rotors. Each cruise propeller or lift prop-rotor connects to an electric motor and an inverter which are installed in an electric engine nacelle as shown in Fig. 1.

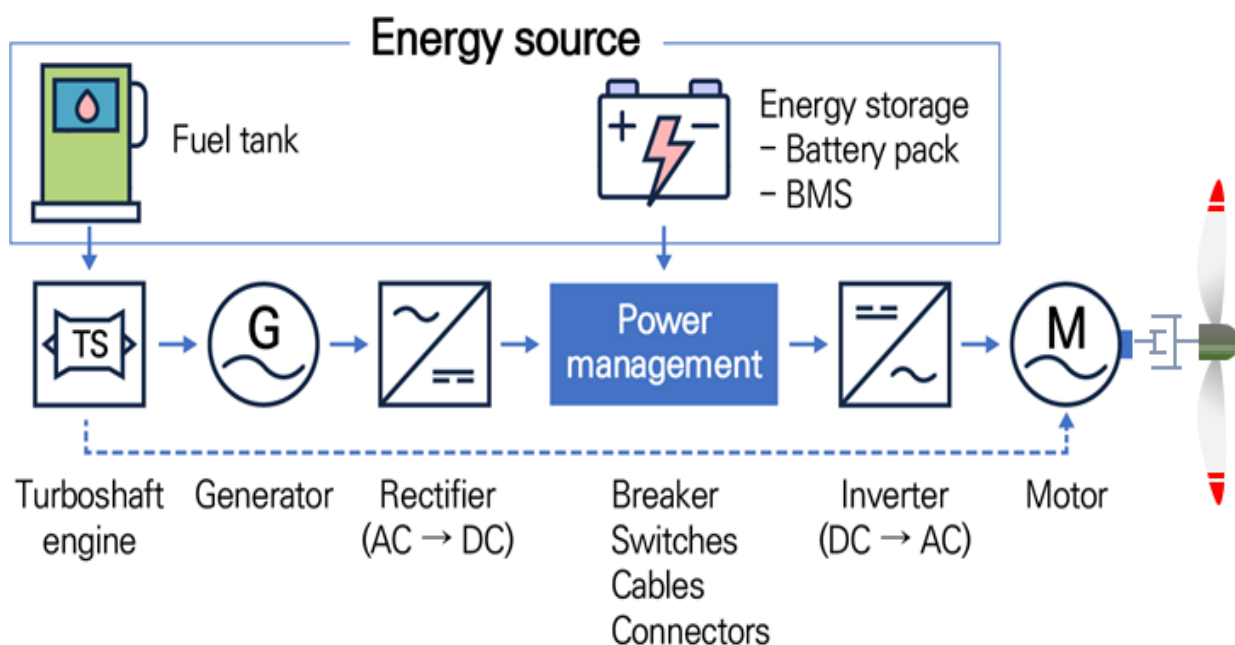
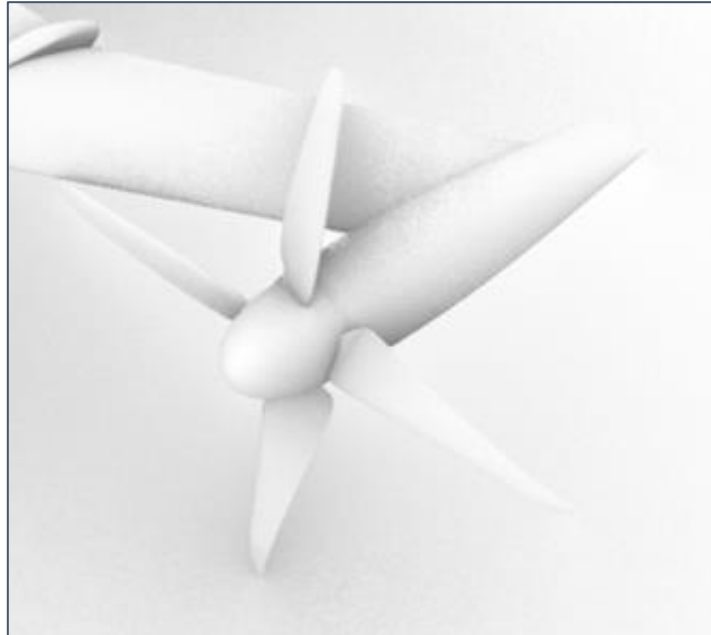


Figure 1. Schematic of HEP system

#### 3.2.2 Electric Engine

An electric engine (EE) is installed in an engine nacelle and rotates the prop-blades as shown in Fig. 2. An eVTOL for Advanced Air Mobility generally has distributed propulsion system, which has multiple prop-rotors due to high safety requirement, and is expected to experience various loading condition due to vertical take-off/landing, transition, and cruise conditions. Therefore, it is important to have robust and light weight design under complex loading conditions.



**Figure 2. Example of electric engine nacelles**

## Part IV. Statement of Work

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## 4.1 Overview

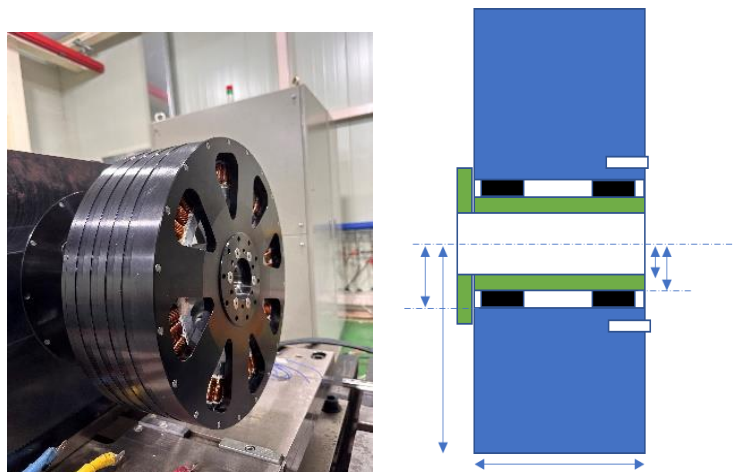
This section defines the work to be performed by the Contractor, including the provision of reports and data for the multi-material topology optimization for the light weight design of an electric engine. The contents, which will be included in a contract document, will be determined based on this RFP and the Contractor's Proposal.

## 4.2 General Description

The goal of this project is to define the enhanced mathematical model and formulation for light weight design based on the KARI's request, and to solve the optimization problem with advanced in-house code that the contractor has. Finally, the optimized geometry shall be proposed.

## 4.3 Multi-material topology optimization of an electric engine

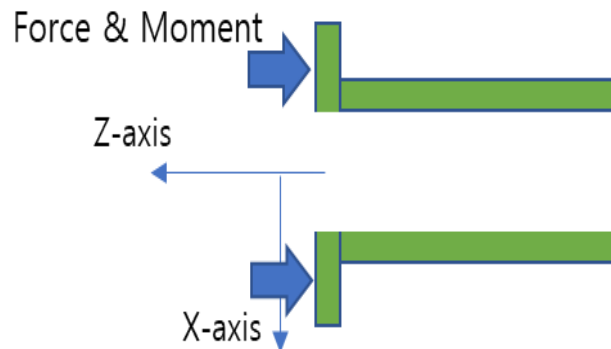
- 4.3.1 KARI will provide the detailed geometry of an electric engine as shown in Fig. 3, and the shaft and stator geometry, respectively.



**Fig. 3. Geometry of an electric engine and design domains (green and blue area)**

- 4.3.2 The contractor shall define the design domain of the electric engine from the CAD model provided from KARI and shall consider the axisymmetric layout of the rotor and stator of the electric engine.
- 4.3.3 The contractor shall define the mathematical problem for multi-material topology optimization of the electric engine for light weight design, and the formulation shall consider structural integrity and vibration characteristics. However, these performance functions are not limited.

- 4.3.4 KARI will provide the various loading conditions generated from the prop-blades during a variety of operation conditions.



**Fig. 4. Loading conditions from prop-blades**

- 4.3.5 If necessary, the contractor shall customize the in-house code that the contractor has been developing, and then solve the multi-material topology optimization problem.
- 4.3.6 The contractor shall post-process the optimized geometry and shall propose both of the interim design of the electric engine and the next process for optimizing the full model of the electric engine rotor and shaft.

#### 4.4 Schedule of Works

Time*	Event
Within one week after contract	KARI provide document for design of an electric engine
November, 2024	Kick-off meeting
November, 2024	Interim presentation
One week before final meeting	Submission of final report
Early of December, 2024	Final presentation
18 <sup>st</sup> December, 2024	End of Contract

\*) Earlier is better

- 4.4.1 Kick off meeting shall be performed at the Contractor site but it can be changed. (exact date will be determined later).
- 4.4.2 Final meeting shall be held at the KARI. (exact date and location will be fixed later)

## 4.5 Kick-off and final meeting

- 4.5.1 The Contractor shall prepare for kick-off and final meeting as stated in 4.4. A meeting room for kick-off meeting shall be prepared by Contractor, if it is held at the Contractor's location, and the meeting room shall be equipped with free WIFI.
- 4.5.2 To leave an evidence for kick-off and final meetings, lecture materials presented during kick-off meeting and final meeting shall be provided to KARI in electronic file format.
- 4.5.3 If sensitive information is included, it should be removed and provided to KARI.

## 4.6 Deliverable Items

The following items written in English should be submitted to KARI.

- (a) The optimization report;
- (b) Advisory review report; and
- (c) Other materials relevant for the performance of Contract such as presentation slides.

The optimization report and Advisory review report shall be submitted one week before the final meeting and prepared in MS Word or MS Power Point format.

For late delivery of the report above, the liquidated damages for delay shall apply.

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## Annex A. Suggested Proposal

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## **1. Volume 1 : EXECUTIVE SUMMARY**

This volume shall describe Bidder's introduction and Proposal summary. The Bidder's experience for the consulting work relevant to the multi-material topology optimization for the light weight design of an electric engine should be included. Bidder shall describe current or past work similar to this RFP, which is being implemented or has been done by Bidder.

## **2. Volume 2 : TECHNICAL PROPOSAL**

Bidder shall describe technical information, methodology, analysis, performance, and etc. to comply with RFP requirements. Bidder shall describe this technical proposal with as many illustrations as possible to make it clear.

## **3. Volume 3 : STATEMENT OF WORK PROPOSAL**

Bidder shall submit Statement of Work proposal in this volume. Bidder shall describe work scope of the Bidder for key topics in detail including the respective plan. In order to substantiate a proposal, all relevant data shall be submitted as attachments. The proposal which is improvable or based on vague presumptions shall be excluded. The basic unit shall be SI unit. British unit of power and weight could be used as a complementary unit. SI unit comes first and British unit shall be put in parentheses.

## **4. Volume 4 : PRICE PROPOSAL**

Bidder shall submit Price Proposal in this volume. In this volume, Bidder shall provide the price breakdown of the price proposed by the Bidder in detail. Price shall be proposed in Korean WON and the proposed price shall reflect possible fluctuations in labor costs, material prices and others in the proposed price. And Bidder shall seal and submit this Price Proposal in separate.

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## Annex B. Terms and Conditions

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[TBD], 2024

[Name]

[Title]

[Contractor name]

[Address]

Tel: [TBD]

e-mail: [TBD]

Subject: Purchase Order ("PO") No. KARI-24-[TBD] for for the multi-material topology optimization for the light weight design of an electric engine

Dear [TBD],

Korea Aerospace Research Institute (hereinafter "KARI") hereby places an order with [Contractor] (hereinafter "Contractor") for following service in accordance with Attachment B "Statement of Work" based on the terms and conditions below. Please provide your acknowledgement by signature after receipt of the PO with KARI's signature, and send us by e-mail the fully signed PO and proceed the work at your earliest convenience.

**A. Order Information: As per the Contractor's proposal submitted to KARI dated [TBD], 2024**

- Total Price: KRW [TBD] (firm and fixed; Korean Value-Added Tax (VAT) not included)
- Item: Multi-material topology optimization for the light weight design of an electric engine (hereinafter referred to as "the Task") in accordance with Attachment B "Statement of Work".

	Description	Price (KRW)
Task	Multi-material topology optimization for the light weight design of an electric engine in accordance with Attachment A & B	[TBD]
Total Price (firm and fixed)		[TBD]

**B. Terms of Payment**

No.	Milestone	Payment Due date	Price (KRW)	Percentage (%)
1	P-Bond (Section F) + Kick-off meeting	Milestone completion + 30 days	[TBD]	30
2	Receipt of the Task Reports	Receipt of Task Report + 30 days	[TBD]	70
Total Price (firm and fixed)			[TBD]	100

- The payment shall be made by wire transfer to the bank account below as designated by Contractor, within thirty (30) days after receipt of payment invoice and completion of each milestone.
- All banking charges incurred in Korea shall be borne by KARI, and those charges incurred outside of Korea shall be borne by Contractor.
- Bank account information for payment to Contractor

Beneficiary's bank including branch name and address	
SWIFT/BIC/Routing No./Transit No./ABA No., etc.	
Beneficiary's Name	
Account Number/IBAN	

### C. Taxes

- Korean VAT is not included in Contract Price and shall be the responsibility of KARI.
- Unless it is proved that Contract Price under this PO is not taxable in Korea as Korean corporation tax (herein referred to as 'Applicable Tax'), such tax will be withheld by KARI and KARI shall pay to the relevant Korean taxing authority on behalf of Contractor as required in accordance with the applicable Korean law and international tax treaty between the governments of Korea and **[TBD]**. In such case, KARI shall forward the certificate for payment of the withheld tax to Contractor within ninety (90) days of such payment.
- KARI shall be responsible for customs duties and VAT on the Deliverable Items levied by Korean tax authority.

### D. Deliverable Items (Document) and Intellectual Property Rights

- The list of Deliverable Items and due dates for each Deliverable Item are as set forth in Attachment B "Statement of Work".
- The Deliverable Items shall be the property of KARI.
- KARI shall have an irrevocable, royalty-free, and exclusive licence to use any data included in the Deliverable Items necessary for the purpose of this PO.

### E. Delivery term

- The Deliverable Items shall be provided to the following KARI persons by e-mail;  
Dr. Jae-Sung HUH (jshuh@kari.re.kr), and Dr. Sangook Jun (sangookjun@kari.re.kr).

### F. Performance bond

- Contractor shall establish a performance bond in favor of KARI in the value of ten percent (10 %) of the Total Price, in the form of an irrevocable and unconditional standby letter of credit or bank guarantee available by KARI's draft at sight, or shall deposit the amount equivalent to ten percent (10 %) of the Total Price to the following account as security for performance.

Beneficiary's bank including address	Woori Bank, Daejeon Banking Center, located at 1495, Doosan-dong, Yuseong-gu, Dajeon, Republic of Korea
SWIFT Code	HVBKKR SEXXX
Beneficiary's Name	Korea Aerospace Research Institute
Account Number	1081-600-247322

- If Contractor fails in performance of this Contract, including failure to obtain any export licence required for the purpose of this Contract, the performance bond will be confiscated by KARI as liquidated damages. In case of a letter of credit, the bond shall be available by KARI's draft at sight without any further requirements other than KARI's presentation of the statement that: there was a default of the Contractor in the performance of the Contract.
- The performance bond shall remain valid until the end of the warranty period indicated in Section H. "Warranty".

#### G. Liquidated damages

- Liquidated damages to be applied for late delivery of the Deliverable Items in accordance with Attachment B "Statement of Work" at the rate of zero point one two five percent (0.125%) of Total Price per day, up to thirty percent (30%) of Total Price in maximum.

#### H. Warranty

- The warranty period shall be one (1) year from the delivery date of Deliverable Items by e-mail.

#### I. Confidentiality

- Contractor shall not, in any manner, advertise, publish or release any information related to this Purchase Order or the work performed or to be performed hereunder without prior approval of KARI.

#### J. Governing Law and Resolution of Dispute

- This PO shall be construed in accordance with and governed by the laws of the Republic of Korea and any disputes between both Parties arising out of or in connection with this PO shall be finally settled by arbitration in Seoul, Korea, in accordance with the International Arbitration Rules of the Korean Commercial Arbitration Board.

#### K. Point of Contact in KARI

Contractual Matters	Technical Matters
Name : Mr. Eun-Jung Lee	Name : Dr. Jae Sung Huh
Tel : +82-42-860-2148	Tel : +82-42-860-2831
e-mail : monicalee@kari.re.kr	e-mail : jshuh@kari.re.kr

Thank you in advance for your cooperation.

Sincerely yours,

Korea Aerospace Research Institute

P.O acknowledged by: [TBC]

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NAME: TBD

Title: TBD / Overseas Contracts Office

Date: TBD

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Name: TBD

Title: TBD / Division

Date: TBD

cc : Mr. Won-Suk LEE

Attachment A. Technical Requirements

Attachment B. Statement of Work

*The End of Documents*