

Instructions to Bidders

(No.: ITB23-KCN-01-01)

Consulting for technical support on the key licensing issues for innovative small modular reactor

February, 2023



KEPCO ENGINEERING & CONSTRUCTION COMPANY, INC.

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CHAPTER I

GENERAL INFORMATION

A. GENERAL INFORMATION OF THE SERVICES

A. GENERAL INFORMATION OF THE SERVICES

KEPCO E&C is developing a system design for the innovative Small Modular Reactor(i-SMR) under the support of Korean government and Korea Hydro and Nuclear Power, Co. (KHNP). i-SMR will adopt many innovative key technologies which may invoke some licensing concerns from Korean nuclear regulating body.

The purpose of this Contract is to assist KEPCO E&C by providing technical solutions listed below with bases for licensing to complete the system design of i-SMR.

The results of this Contract will be shared by KHNP according to the contract between KEPCO E&C and KHNP.

CHAPTER II

INSTRUCTION

A. GENERAL INSTRUCTIONS

B. SUBMISSION OF BID DOCUMENTS

C. DEADLINE FOR SUBMISSION AND VALIDITY OF BID DOCUMENTS

D. LATE SUBMISSION

E. CLARIFICATION

F. BID CURRENCIES

G. LANGUAGE OF BID

H. CONFIDENTIAL NATURE OF DOCUMENTS

I. OWNERSHIP OF BID AND COMPENSATION

J. MODIFICATION, REJECTION AND WITHDRAWAL OF BID

K. QUALIFICATION REQUIREMENT

L. COMPOSITION OF BID DOCUMENTS and BID EVALUATION

M. OTHERS

A. GENERAL INSTRUCTIONS

Bidders are requested to prepare and submit a technical proposal and a financial proposal (collectively, the “Bid Documents”) in accordance to all the requirements specified in this Instructions to Bidders (ITB). ITB includes all chapters and appendixes indicated in the table of contents of this ITB.

For the avoidance of doubt, each entity shall submit only one (1) Bid Documents, and participating as a form of consortium with other entities is not allowed.

B. SUBMISSION OF BID DOCUMENTS

1. Bidders shall submit Bid Documents to the following address **by e-mail**:

Attn. 1 : Mr. Lee Joonchul
General Manager
Business Contract Team
KEPCO Engineering & Construction Co., Inc.
E-mail: jclee76@kepco-enc.com

Attn. 2 : Mr. Lee Seunghyun
Business Contract Team
KEPCO Engineering & Construction Co., Inc.
E-mail: sh.lee@kepco-enc.com

2. Documentations to be Submitted

(a) Commercial Proposal

- Price Bid Form (A. PRICE BID FORM in CHAPTER III - INFORMATION for COMMERCIAL PROPOSAL) shall be completed and submitted.
- Deviation request, if any, using Deviation Request Form (B. DEVIATION REQUEST FORM in CHAPTER III - INFORMATION for COMMERCIAL PROPOSAL) and marked-up General Terms & Conditions (GTC) of appendix A. Deviation requests shall include explanations why the Bidder requests those deviations. Request(s) marked-up in GTC and written in Deviation Request Form both shall only be considered as the Bidder's deviation request.
- Any relevant evidences and/or descriptions, comments and/or proposals in connection with this Bid.

(b) Technical Proposal

- Technical Proposal (Bidder's forms shall be used)

(c) Applicable Bidder's Registration Certificate

- Bidders shall submit official registration certificate which proves that the Bidder is doing its business in accordance with the legal provisions of the country in which it is established.

Technical Proposal and Commercial Proposal shall be submitted in separated files and named accordingly. Two separated files using Zip files for each can be an option.

C. DEADLINE FOR SUBMISSION AND VALIDITY OF BID DOCUMENTS

Bidder(s) submit its Bid Documents no later than **09:00 a.m. Korean Standard Time on February 28, 2023** and the Bid Documents shall remain firm valid for a period of **six (6) months** from the date of this deadline. Once submitted, proposals shall not be withdrawn until the validity of the Bid Documents.

D. LATE SUBMISSION

Bid Documents received after the deadline for submission of the Bid pursuant to Section C above may be rejected.

E. CLARIFICATION

Should the any Bidder find discrepancies or should any doubt or question exist as to the true meaning or intent of any portion of the contents of this ITB, the Bidder may make a written request to KEPCO Engineering & Construction Co., Inc. (hereinafter called "KEPCO E&C"). However, the clarification shall be submitted no later than seven (7) days prior to deadline for submission of this Bid.

The request for clarification and the response shall be given in writing via e-mail. Clarification inquiries and answers may be disclosed to all Bidders who intend to participate the Bid.

Bidder's questionnaire must be submitted to the following address:

Attn. : Mr. Lee Seunghyun

E-mail: sh.lee@kepco-enc.com

F. BID CURRENCIES

The Bidder shall submit its Bid Documents with amounts in **U.S. Dollars (\$)**.

G. LANGUAGE OF BID

The Bid Documents prepared by Bidder(s) and all correspondences and documents relating to the Bid exchanged between the Bidder and KEPCO E&C shall be written in English.

H. CONFIDENTIAL NATURE OF DOCUMENTS

The contents of this ITB shall only be used for the preparation of the Bid.

All information provided by KEPCO E&C in the course of the bidding process is strictly confidential and must not be disclosed or distributed to any other third parties without KEPCO E&C's prior written consent, except for any information already in the public domain at the time of KEPCO E&C's first disclosure of this ITB to the bidder.

I. OWNERSHIP OF BID AND COMPENSATION

Bid Documents once submitted to KEPCO E&C shall not be returned to the Bidder regardless of whether it is accepted or rejected. The Bidder shall bear all costs associated with the preparation and submission of the Bid Documents, and in no case will KEPCO E&C be responsible or liable for those costs, regardless of the conduct or outcome of the Bid process.

J. MODIFICATION, REJECTION AND WITHDRAWAL OF BID

KEPCO E&C reserves the right to reject without any liability to the Bidder(s) any part of, or all Bids, to modify or withdraw this ITB at any time, and to enlarge or reduce the scope of Services to be included in the ITB.

K. QUALIFICATION REQUIREMENT

Only the Bidder(s) which meet all requirements described below shall be qualified to submit a Bid Proposal pursuant to the ITB.

- Experiences of design of Nuclear Power Plants and/or technical development for Nuclear Steam Supply System
- Experiences of resolving licensing issues in Nuclear Steam Supply System in cooperation with United States Nuclear Regulatory Commission
- Experiences of participating in licensing review activities for Small Modular Reactor

L. COMPOSITION OF BID DOCUMENTS and BID EVALUATION

Any procedure, method and decision to be taken by KEPCO E&C with regard to the evaluation shall be decisive and any claim by the Bidder will not be accepted. During the evaluation of Bid, KEPCO E&C may ask Bidder(s) for clarification of its Bid Documents.

A Bidder with the highest score shall be designated as a preferred bidder.

In case of negotiation with a preferred bidder is failed, a qualified bidder with second highest score shall be a preferred bidder.

The Bidder(s) shall prepare and submit its Bid Documents to KEPCO E&C by two different files separating for Part I. Commercial Proposal and Part II. Technical Proposal as follows:

Part I. Commercial Proposal (30%)

Terms and conditions attached as Appendixes in this ITB will be the basic terms and conditions to be finalized through contract negotiation. Unless the Bidder(s) clearly states its deviation request and/or exceptions to the terms and conditions in its Commercial Proposal, the Bid Documents shall be construed as an offered in compliance with the terms and conditions as described in the ITB including Appendixes.

Bidder(s) shall submit its Commercial Proposals using forms indicated in Chapter III [Information for Commercial Proposal]

1. Bid price made in accordance with Price Bid Form in Chapter III.
2. Exceptions and/or deviations to GTC of Appendix A, using Deviation Request Form and GTC.
 - The Bidder with no exceptions and/or deviations against terms and conditions will receive the maximum score
 - Bidder(s) requesting any exceptions and/or deviations shall clearly fill the Deviation Request Form and markup on the GTC.

Commercial evaluation shall be made based on 80% bid price and 20% deviation request

Part II. Technical (Project) Proposal (70%)

The factors to be considered in selecting the first eligible Bidder include, without limitation, the following:

1. Bidder's references for the projects on the consultation for nuclear power plants
2. Bidder's references for the design projects for nuclear power plants
3. Bidder's references for the projects for NPP licensing with USNRC
4. Bidder's references on the evaluation and licensing activities for the small modular reactors

For Bidder's information, please see below table which will be used for technical (Project) evaluation of this Bid.

- Evaluation Table

No	Evaluation Factors	Contents	Score	Details
1	Nuclear Consultation Experience	Experiences of technical consultation for the technology of nuclear power plant.	30	- Number of technical consultation projects completed in recent 10 years for nuclear power plants ¹⁾
2	Nuclear Design Experience	Experiences of design for nuclear power plant.	10	- Number of design projects completed in recent 10 years for nuclear power plants ²⁾

3	Licensing Experiences	Experiences of licensing evaluation for nuclear power plant technology	30	- Experiences of technical evaluation and licensing review for nuclear steam supply system with US Nuclear Regulation Commission ³⁾
4	SMR Technology	Experiences of participating in licensing projects for small modular reactors	30	- Experiences of participating in technical evaluation and licensing review for small modular reactors ⁴⁾
합계			100	-

Applicants' data will be evaluated according to the criteria of 'Details and score' in Table above as follows:

- More than ten(10) projects: 30 points, 5 ~ 9 projects: 25 points, less than five(5) projects: 20 points
- More than five(5) projects: 10 points, 1~4 projects: 5 points, No project: 2 points
- More than one (1) projects: 30 points, One (1) projects: 25 points, No project: 15 points
- One (1) or more projects: 30 points, No project: 0 point

Bidders with 85% or above of total score is considered to be qualified bidder for negotiation.

M. OTHERS

1. KEPCO E&C will not authorize the expenses related to Bidder's visit to Korea for the discussion of this ITB or contract negotiation.
2. The Bidder shall be responsible for all costs and expenses associated with this Bid process including but not limited to Bidder's Bid Documents and clarification documents or meetings and has no right to claim the same against KEPCO E&C or any other related party.
3. The purpose of this ITB is only to select preferred bidder. Accordingly, KEPCO E&C is not obligated to accept the terms and conditions of the Bid Documents. In

the event KEPCO E&C and the preferred bidder fail to reach an agreement on the contract, KEPCO E&C shall have the right to select and negotiate with another bidder without any liability or compensation to the preferred bidder. KEPCO E&C also reserves the right to reject any and all proposal received by reason of this ITB and to negotiate separately with any source whatsoever, in any manner deemed necessary, to serve the best interest of KEPCO E&C.

4. Bidder(s) shall submit reference documents and/or attend meeting(s) (face-to-face, via teleconference, or any other platform as agreed) to clarify any aspect of the Bid Documents.
5. By the Bidder's submission of Bid Documents to KEPCO E&C, the Bidder agrees to all terms in this ITB and represents and warrants its Bid Documents to be true, correct and complete.
6. KEPCO E&C will not conclude a Contract with any bidder if the bidder will not accept the performance guarantee requirements described in CHAPTER III – INFORMATION for COMMERCIAL PROPOSAL. However, the guarantee may be provided with cash deposit into KEPCO E&C's account in case both parties agree.
7. At KEPCO E&C's sole discretion, KEPCO E&C may request bidder to submit 'Certification of Matters relating to Restrictions on Conclusion of Negotiated Contracts', attached to this document as 'E. Certification of Matters relating to Restrictions on Conclusion of Negotiated Contracts' in APPENDIX – TERMS and CONDITIONS, prior to conclude the contract. KEPCO E&C will not conclude a Contract with the bidder if the bidder will not submit the document upon KEPCO E&C's request.

CHAPTER III

INFORMATION for COMMERCIAL PROPOSAL

A. PRICE BID FORM

B. DEVIATION REQUEST FORM

C. PERFORMANCE GUARANTEE REQUIRMENTS

A. PRICE BID FORM

Budget for this contract is USD 547,500

A. Amount of Consulting Services (Reimbursable)

Task No.	Task Items	Bid Price* (USD)	Budget** (USD)
1	Review and recommendation on the Support Design of Reactor Vessel and Steel Containment		95,000
2	Operation experiences and related system requirements for the soluble boron-free Chemical and Volume Control System (CVCS)		50,000
3	Structural Design and Leakage Integrity Assurance of Steel Containment		165,000
4	Review on the Sealing for the control rods drive mechanism		97,500
5	Review on the Requirements for the Materials Integrity of SMR		75,000
6	Design, Fabrication, Inspection and Maintenance for Nozzles and Tubes of SMR Steam Generator		65,000
Total Contract Price			547,500

* Reimbursable within each price of each Task (ceiling for each Task) based on actual working hours.

** For information only. **Bid Price for each Task shall not exceed each Budget amount.**

B. DEVIATION REQUEST FORM

Article #	DESCRIPTION	JUSTIFICATION

C. PERFORMANCE GUARANTEE REQUIREMENTS

Contractor shall furnish KEPCO E&C with a Performance Guarantee which shall be of Bank Guarantee or Standby Letters of Credit (LC). Guarantee shall be issued by KEB Hana Bank KEPCO E&C(S) branch.

All costs, expenses, fees and charges levied by all banks party to the Performance Guarantee shall be prepaid/borne by the Contractor. The Performance Guarantee shall contain all requirements of payment to KEPCO E&C.

Requirements of the Performance Guarantee:

- Designated bank information:
 - KEB Hana Bank (KEPCO E&C(S) Branch)
 - Swift Code: KOEXKRSE or KOEXKRSEXXX
 - Bank Address: 269, Hyeoksin-Ro, Gimcheon-Si, Gyeongbuk-Do, 39660, Republic of Korea
 - Tel.: +82-54-437-9405
- Application Rules: UCP Latest Version
- Guarantee period: Guarantee period described in the Contract
- Guarantee Amount: 10% of the Contract Price
- Beneficiary: KEPCO Engineering & Construction Co., Inc.

269, Hyeoksin-Ro, Gimcheon-Si, Gyeongbuk-Do, 39660, Republic of Korea
- The Performance Guarantee shall be denominated in the currency used in the

Contract.

- It shall be the responsibility of the Contractor to ensure that its Performance Guarantee is valid at all times during the period of contract validity and further is in the full amount as contracted.
- The performance guarantee shall be held against payment to KEPCO E&C for any loss resulting from the Contractor's failure to perform its contractual obligations fully and properly without any reference to the Contractor.
- The performance guarantee shall be irrevocable shall be provided in as a first-demand guarantee.
- Bank shall use the wordings of the Appendix for the guarantee.

[Appendix- Wordings for Guarantee]

1. Bank Guarantee by KEB Hana Bank

APPLICANT: [To be Included]

BENEFICIARY: KEPCO ENGINEERING AND CONSTRUCTION CO., INC.
269, HYEOKSIN-RO, GIMCHEON-SI
GYEONGSANBUK-DO 39660, REPUBLIC OF KOREA

WE HAVE BEEN INFORMED BY OUR PRINCIPAL, [To be Included], CONCLUDED A CONTRACT THAT YOU HAVE SIGNED WITH THEM THE CONTRACT FOR [To be Included] WITH KEPCO ENGINEERING AND CONSTRUCTION CO., INC. (HEREINAFTER REFFERRED TO AS THE BENEFICIARY) FOR [Contract amount to be Included] TO PROVIDE CONSULTING SERVICE.

WE HAVE ALSO BEEN INFORMED THAT ACCORDING TO THE ABOVE-MENTIONED CONTRACT, A PERFORMANCE GUARANTEE IS REQUIRED.

AT THE REQUEST OF THE PRINCIPAL, WE, KEB HANA BANK, 35 ULCHIRO, CHUNG-GU, SEOUL, REPUBLIC OF KOREA, HEREBY IRREVOCABLY UNDERTAKE TO PAY YOU ANY SUM OF SUMS NOT EXCEEDING IN TOTAL AN AMOUT OF [To be Included] UPON RECEIPT BY US OF YOUR FIRST DEMAND IN WRITING AND YOUR WRITTEN STATEMENT STATING THAT THE PRINCIPAL IS IN BREACH OF HIS OBLIGATIONS UNDER THE UNDERLYING CONTRACT AND THE RESPECT IN WHICH THE PRINCIPAL IS IN BREACH.

THIS GUARANTEE WILL EXPIRE ON [To be Included], AT THE LATEST. CONSEQUENTLY, ANY DEMAND FOR PAYMENT MUST BE RECEIVED BY US AT THIS OFFICE ON OR BEFORE THAT DATE.

THIS GUARNATEE IS SUBJECT TO THE UNIFORM RULES FOR DEMAND GUARANTEES, ICC PUBLICATION NO.758.

2. Counter Guarantee by other bank and guaranteed by KEB Hana Bank

TO: KEB HANA BANK (KEPCO E&C(S) Branch)

Swift Code: KOEXKRSE or KOEXKRSEXXX

Bank Address: 269, Hyeoksin-Ro, Gimcheon-Si, Gyeongbuk-Do, 39660, Republic of Korea

AT THE REQUEST OF PRINCIPAL, PLEASE ISSUE ON OUR RESPONSIBILITY IN FAVOR OF
KEPCO ENGINEERING AND CONSTRUCTION CO., INC. YOUR GUARANTEE IN THE
FOLLOWING WORDING:

QUOTE

APPLICANT: [To be Included]

BENEFICIARY: KEPCO ENGINEERING AND CONSTRUCTION CO., INC.

269, HYEOKSIN-RO, GIMCHEON-SI

GYEONGSANBUK-DO 39660, REPUBLIC OF KOREA

WE HAVE BEEN INFORMED BY OUR PRINCIPAL, [To be Included], CONCLUDED A CONTRACT
THAT YOU HAVE SIGNED WITH THEM THE CONTRACT FOR [To be Included] WITH KEPCO
ENGINEERING AND CONSTRUCTION CO., INC. (HEREINAFTER REFERRED TO AS THE
BENEFICIARY) FOR [Contract amount to be Included] TO PROVIDE CONSULTING SERVICE.

WE HAVE ALSO BEEN INFORMED THAT ACCORDING TO THE ABOVE-MENTIONED
CONTRACT, A PERFORMANCE GUARANTEE IS REQUIRED.

AT THE REQUEST OF THE PRINCIPAL, WE, KEB HANA BANK, 35 ULCHIRO, CHUNG-GU,
SEOUL, REPUBLIC OF KOREA, HEREBY IRREVOCABLY UNDERTAKE TO PAY YOU ANY SUM
OF SUMS NOT EXCEEDING IN TOTAL AN AMOUNT OF [To be Included] UPON RECEIPT BY US OF
YOUR FIRST DEMAND IN WRITING AND YOUR WRITTEN STATEMENT STATING THAT THE
PRINCIPAL IS IN BREACH OF HIS OBLIGATIONS UNDER THE UNDERLYING CONTRACT AND
THE RESPECT IN WHICH THE PRINCIPAL IS IN BREACH.

THIS GUARANTEE WILL EXPIRE ON [To be Included], AT THE LATEST. CONSEQUENTLY, ANY
DEMAND FOR PAYMENT MUST BE RECEIVED BY US AT THIS OFFICE ON OR BEFORE THAT
DATE.

THIS GUARNATEE IS SUBJECT TO THE UNIFORM RULES FOR DEMAND GUARANTEES, ICC
PUBLICATION NO.758.

UNQUOTE

IN CONSIDERATION OF YOUR ISSUING YOUR GUARANTEE AS ABOVE, WE, [To be Included],
HEREBY GIVE YOU OUR IRREVOCABLE COUNTER-GUARANTEE AND UNDERTAKE TO PAY
YOU ANY SUM OR SUMS NOT EXCEEDING IN TOTAL AMOUNT OF [To be Included] UPON
RECIPT BY US AT THIS OFFICE NO LATER THAN [To be Included] OF YOUR FIRST WRITTEN
DEMAND. SUCH A DEMAND SHALL BE SUPPORTED BY YOUR WRITTEN STATEMENT THAT
YOU HAVE RECEIVED A DMAND FOR PAYMENT UNDER YOUR GUARANTEE IN
ACCORDANCE WITH ITS TERMS AND WITH ARTICLE 18 OF THE UNIFORM RULES FOR
DEMAND GUARANTEES.

THIS COUNTER-GUARANTEE IS SUBJECT TO THE UNIFORM RULES FOR DEMAND
GUARANTEES, ICC PUBLICATION NO. 758.

PLEASE CONFIRM TO US THE ISSUANCE OF YOUR GUARANTEE.

CHARGES: ALL BANKING CHARGES SHALL BE FOR THE ACCOUNT OF THE APPLICANT.

CHAPTER IV

INFORMATION for TECHNICAL PROPOSAL

- A. SCOPE OF THE SERVICES**
- B. METHOD OF PERFORMANCE**
- C. SCHEDULE**

A. TECHNICAL SCOPE OF WORK

Contractor shall provide engineering consulting services to KEPCO E&C including the following tasks:

Task 1: Review and recommendation on the Support Design of Reactor Vessel and Steel Containment

(1) Required completion date: Execution Date + 4 Months

(2) Activity description

- Review of Support Design for Reactor Vessel and Steel Containment for SMR
 - Review of Codes and Standards
 - Review of Materials Selection
 - Review of Design Requirements for Supports
 - Review of Conceptual Design
 - Consideration of Heavy Vessel Support installed in Limited Area
 - Consideration of Interface Design between RV and CV
 - Recommendation for Development of i-SMR Supports
- Review of Procedure for Manufacture and Installation for Supports
 - Requirements of Manufacture and Installation
 - Review of Procedure for Manufacture and Installation
 - Recommendation of Manufacture and Installation
 - Requirements of Inspection and Maintenance

Task 2: Operation experiences and related system requirements for the soluble boron-free Chemical and Volume Control System(CVCS) for SMR

(1) Required completion date: Execution Date + 6 Months

(2) Activity description

- Providing technical issues and considerations for the application of plate-and-shell heat exchanger instead of shell-and-tube heat exchanger for the CVCS, including applicable codes and standards and licensing issues.
- Providing modular design for SMR CVCS including configuration and component lists, design requirements for the components, design and licensing experience, and lessons learned related to the compact design of SMR CVCS. Suggestions shall be provided to reduce the size, capital and operating cost of CVCS.
- Recommendation of facilities for removing ion and insoluble impurities rather than ion exchangers or filters. Suggestions shall be provided for alternative purification facilities for SMR other than ion exchanger. Design and licensing experience and lessons learned shall also be provided related to the alternative purification facilities for the SMR.

Task 3: Structural Design and Leakage Integrity Assurance of Steel Containment for SMR

(1) Required completion date: Execution Date + 3 Months

(2) Activity description

- Providing the followings for the structural design requirements for Steel Containment Vessel and penetration design
 - The requirements of codes and standards for the structural design
 - The design method and procedure for the steel containment
 - Review of penetration and piping interface design and adequacy of number of penetration SMR

- Review on the design of Steel Containment Vessel structure
 - Codes and standards for the Steel Containment structural design
 - Design requirements, design method, and procedure for the steel containment
 - Loads and load combinations
 - Acceptance criteria for the containment structural integrity on design basis event and beyond design basis event
 - Methodology on mass/energy release analysis and its resulting containment pressure and temperature (P/T) analysis to confirm the integrity of steel containment vessel

- Providing the followings for UPC (Ultimate Pressure Capacity) evaluation method for Steel Containment Vessel
 - Methodology to determine the UPC of the steel containment vessel
 - Analysis procedure and requirement for UPC (NUREG/CR-6906, RG. 1.216, etc.)
 - Validation review of assumption for UPC
 - ◆ Failure criteria, Stud preload, FE model, material properties, weld residual stress, static coefficient of friction and buckling, etc.

- Providing the followings for Containment Vessel Leakage Integrity Assurance
 - Applicable requirements including code and standards for containment vessel leakage integrity assurance
 - Methodology to ensure leakage integrity
 - Design and analysis to provide leakage integrity assurance for the

containment vessel

- Pre-service and in-service inspection (PSI and ISI) and testing method for each inspection locations
- Leakage integrity assurance methods regarding material selection and aging degradation

Task 4: Review on the Sealing for the control rods drive mechanism

(1) Required completion date: Execution Date + 6 Months

(2) Activity description

- Survey of available industry sealing technologies
- Review on the applicable design of the sealing units for in-vessel control element drive mechanism(IV-CEDM) cables and ICIs
- Recommendations on the design of the sealing units for the In-vessel Control Element Drive Mechanism cables and in-core instrumentations
- Evaluation and recommendation for improvement of the conceptual maintenance procedures for the sealing units
- Recommendations on the qualification method and criteria for the sealing units
- Providing applicable codes and standards in the United States with regulatory requirements

Task 5: Review on the Requirements for the Materials Integrity of SMR

(1) Required completion date: Execution Date + 6 Months

(2) Activity description

- Review on major materials, fabrication and examination requirements for the design phases
- Review on the possible materials degradation for SMR
- Expected licensing issues for material-related areas of SMR
- Review applicable material list of SG Helical Tube
- New technologies for welding, cladding, and forgings for SG helical tubing applicable to SMR
- Qualification requirements of IV-CEDM including wiring for materials integrity in SMR
- Expected water chemistry modifications applicable to SMR
- Provide any applicable references, codes and standards in the United States with regulatory requirements

Task 6: Design, Fabrication, Inspection and Maintenance for Nozzles Header and Tubes of SMR Steam Generator

(1) Required completion date: Execution Date + 6 Months

(2) Activity description

- Review on the conceptual design for nozzles and tubes of SMR Steam Generator (SG)

- Recommendation for the design improvement of SG headers and nozzles considering fabrication
- Recommendation for the solution of licensing issues for in-service inspection of SG
- Recommendation for exempting schemes from in-service inspection of tubes
- Recommendation for steam generator maintenance program applicable for SMR SG
- Recommendation for methods to minimize flow induced vibration and wear of tubes
- Providing applicable codes and standards for SMR SG

B. METHOD OF PERFORMANCE

Consulting Schedule

The consulting will be finished by December. 31,2023 according to the design and engineering schedule of KEPCO E&C for the tasks listed in Appendix A. Contractor shall provide, for approval by KEPCO E&C, the detailed schedule of each task for technical meetings and reports in the Task Order.

Method of Performance

Contractor shall start the consulting service in accordance with each of the Task Orders(TOs) and perform the activities specified in the TOs. The methods to issue the TOs and to perform activities are described as follows:

1. Preparation and Issuance of Task Orders

KEPCO E&C is responsible for preparation of a draft TO. However, if it is considered more efficient, KEPCO E&C may request Contractor to prepare the draft TO on behalf of KEPCO E&C. It is recommended to use the template (Attachment 1. Task Order Form) given in this Contract. The draft TO shall include the following information:

- (a) Title of the Task Order
- (b) Schedule of activities for the Task
- (c) Scope of work
- (d) Methods of performance
- (e) Deliverables
- (f) Price information(man-hours and hourly rates for the task)
- (g) Others

Draft deliverables shall be submitted to KEPCO E&C for review and comment, and shall be incorporated into the final deliverables after resolving between both parties. The draft TO shall be reviewed, agreed and approved by the project managers of the both parties. Then, the signed (approved by the project managers of both parties) final TO is officially issued by the project manager of KEPCO E&C.

2. Task Orders

The Task Order Form is provided in Attachment 1-.

Contractor shall keep confidential all the data and information from this Contract, and shall not divulge them to any third parties.

Deliverables

Deliverables issued per the TOs shall be provided in accordance with the above article (method of performance) mentioned.

C. SCHEDULE

The Contract is effective until December 31, 2024.

The time schedules of tasks are subject to change after agreement between the Contractor and KEPCO E&C, and will be specified in each of the TOs.

Attachment 1. Task Order Form

TASK ORDER	No. TO-N-001	Rev.0
<p>To : <u>Name of Project Manager of Name of Contractor</u></p> <p>I, the undersigned, hereby authorize this Task Order (TO) under which Contractor shall provide the required Services described below in accordance with the terms and conditions of the Contract between <u>Contractor</u> and KEPCO E&C, dated <u>mm/dd/yyyy</u>, which shall govern this Task Order.</p> <p>1. TITLE</p> <p><u>XXXXXXXXX</u></p> <p>2. BRIEF DESCRIPTION</p> <p><u>XXXXXXXXX</u></p> <p>3. START/END DATES AND DURARTION</p> <ul style="list-style-type: none">• Assignment Start Date: <u>mm/dd/yyyy</u>• Assignment End Date: <u>mm/dd/yyyy</u>• Duration: <u>00 Months</u> <p>4. SCOPE OF WORK</p> <p>Contractor shall provide engineering services to KEPCO E&C for the following tasks:</p> <p>A. Sub-Task No.:</p> <p>The Contractor shall provide the following sub-tasks for each task item according to the Contract between Contractor and KEPCO E&C:</p> <p>(1.1) XXXXXXXX</p> <p>(1.2)</p> <p>(1.3)</p>		

TASK ORDER		No. TO-N-001	Rev.0																																							
<i>Describe scope of work and method of performance....</i>																																										
<p>5. PRICE</p> <ul style="list-style-type: none"> Total Budget: USD <u>000,000</u> <table border="1"> <thead> <tr> <th>Activity or Item</th> <th>Position Assigned</th> <th>Rate (USD/hr)</th> <th>Man-hours</th> <th>Costs (USD)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Sub-task 1.1</td> <td>Senior Engineer</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Junior Engineer</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">Sub-task 1.2</td> <td>Senior Engineer</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Junior Engineer</td> <td></td> <td></td> <td></td> </tr> <tr> <td>...</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTAL</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>6. DORMAIN OF RESPONSIBILITY</p> <p>A. KEPCO E&C</p> <ul style="list-style-type: none"> - Provides explanation on the task defined in this Task Order so that the Contractor can perform the task. - Reviews the deliverables prepared by the Contractor and provides comments on deliverables for the Contractor to revise the deliverables as needed. <p>B. Contractor</p> <ul style="list-style-type: none"> - Provides the consulting services described in this Task Order. - Provides the draft deliverables to KEPCO E&C as defined in this Task Order. - Provides the final deliverables to KEPCO E&C with all the comments resolved 					Activity or Item	Position Assigned	Rate (USD/hr)	Man-hours	Costs (USD)	Sub-task 1.1	Senior Engineer				Junior Engineer				Sub-task 1.2	Senior Engineer				Junior Engineer				...										TOTAL				
Activity or Item	Position Assigned	Rate (USD/hr)	Man-hours	Costs (USD)																																						
Sub-task 1.1	Senior Engineer																																									
	Junior Engineer																																									
Sub-task 1.2	Senior Engineer																																									
	Junior Engineer																																									
...																																										
TOTAL																																										

TASK ORDER	No. TO-N-001	Rev.0
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7. TIME SCHEDULE

Sub-task No.	Activity	DOR	Schedule
1.1	Sub-task title	Contractor	
1.2	Sub-task title	KEPCO E&C	
...	...		
...	...		

8. DELIVERABLES

No.	Deliverables	DOR	Schedule
1	Title of deliverable 1	KEPCO E&C	
2	Title of deliverable 2	Contractor	
3	Title of deliverable 3	KEPCO E&C	
...	...		

9. NAME(S) AND POSITION OF PERSONNEL TO CARRY OUT THE WORK

- (1) Name-1, Senior Engineer, Nuclear Engineering
- (2) Name-2, Senior Engineer, Fluid Engineering
- (3)

10. REFERENCES

- (1) Contract No. XXX
- (2) ...

11. ISSUE OF TASK ORDER

APPENDIX

TERMS and CONDITIONS

A. GENERAL TERMS AND CONDITIONS

B. INTEGRITY PACT

C. PAYMENT TERMS

D. NON-DISCLOSURE AGREEMENT

**E. Certification of Matters relating to Restrictions on Conclusion of
Negotiated Contracts**

A. GENERAL TERMS AND CONDITIONS

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ARTICLE	29 EFFECTIVENESS

PREAMBLE

This service contract (the “Contract”) is made and entered into effective as of this ____ day of ____, 2023 (hereinafter called the “Execution Date”) by and between:

1. **KEPCO Engineering & Construction Co., Inc.** (“KEPCO E&C”), a company duly organized and existing under the laws of the Republic of Korea (“Korea”) and having its principal office of business at 269 Hyeoksin-ro, Gimcheon-si, Gyeongsangbuk-do, 39660, Korea; and
2. _____, a company duly organized and existing under the laws of _____ and having its principal office of business at _____ (the “Contractor”).

WITNESSETH:

WHEREAS, KEPCO E&C desires the Contractor to provide services for _____;

WHEREAS, the Contractor offers to provide KEPCO E&C with such Services and to abide by the terms and conditions of this Contract;

WHEREAS, the Contractor has represented himself that it is technically qualified and experienced in the type of work as defined hereinafter and that it is professionally and financially capable of providing the Services for KEPCO E&C;

WHEREAS, KEPCO E&C and the Contractor (hereinafter referred to, individually, a “Party” and collectively, the “Parties”) desire to document their agreement to cover the conditions under which the Services shall be provided; and

WHEREAS, the representatives of the Parties possess proper and sufficient authority to agree.

NOW, THEREFORE, for and in consideration of the premises and the mutual covenants and agreements hereinafter set forth, the Parties agree as follows:

ARTICLE 1. [DEFINITIONS AND INTERPRETATION]

- “Contract” means this agreement entered into between KEPCO E&C and the Contractor for the supply of the Services.
- “Contractor” means [REDACTED] and its successors and assignees entering into this Contract with KEPCO E&C for the supply of Services in accordance with this Contract.
- “day” means calendar day unless expressly indicated as a working day.
- “KEPCO E&C” means KEPCO Engineering & Construction Company, Inc., having its headquarters in Gyeongsangbuk-do, Korea and its legal representatives, successors and assignees.
- “Korea” means the Republic of Korea.
- “Services” means all services to be performed by the Contractor in accordance with the terms and conditions of this Contract.

ARTICLE 2. [SCOPE OF THE SERVICES]

- 2.1 The Services to be performed by the Contractor under this Contract are described in Appendix A [Scope of Services and Method of Performance] attached hereto and made a part hereof.
- 2.2 Upon completion of all tasks in accordance with the schedule agreed between the Parties, the Contractor shall submit its work results including all deliverables to KEPCO E&C for its inspection and review. Upon acceptance in writing by KEPCO E&C of the work results, the Contractor shall be deemed to have completed the Services.

ARTICLE 3. [CONTRACT PRICE]

- 3.1 The maximum total amount to be paid by KEPCO E&C under the Contract and corresponding to the total contract price (the “Contract Price”) shall be USD_____ inclusive of labor cost and other direct costs. The Contractor agrees that any amount exceeding the above Contract Price shall not be paid by KEPCO E&C.
- 3.2 In case any increase or decrease in accordance with Article 7, "Revisions" or Article 13, "Termination" is required, such portion of increase or decrease shall be calculated based on the cost detail specified in Appendix B [CONTRACT PRICE & PAYMENT].

ARTICLE 4. [TERMS OF PAYMENT]

- 4.1 The Contractor shall submit invoices to KEPCO E&C in accordance with the following payment schedule described in Appendix B [CONTRACT PRICE & PAYMENT].

- 4.2 KEPCO E&C shall pay the accepted amount to the Contractor within thirty (30) days after the receipt of the invoice by telegraphic transfer to the Contractor's bank account. For the avoidance of any doubt, no invoice shall be paid unless and until KEPCO E&C has received and accepted the result (including but not limited to deliverables such as technical consulting service report) of Services performed by the Contractor.

Should any adjustment be necessary as a result of questioned or disallowed items, such adjustment shall be added to or deducted from, as the case may be, any following invoice. If there remains a questioned item, KEPCO E&C reserves the right to withhold payment for the items in question.

- 4.3 Except for banking charges incurred by KEPCO E&C to pay Contractor in connection with Article 3 "Contract Price", all banking charges shall be for the Contractor's account.

ARTICLE 5. [TAXES]

Except as otherwise specifically provided in this Contract, including Appendixes, the Contractor shall bear and pay the corporate tax, personal income tax, inhabitant tax and any other taxes assessed on the Contractor, if any, by all local, state or national government authorities outside of Korea in association with the Services. Taxes levied by government authorities of Korea shall be borne by KEPCO E&C.

ARTICLE 6. [FORCE MAJEURE]

No Party shall be in default or shall be liable for any loss or damage due to delay in, or prevention of the performance of its obligations under this Contract if such delay or prevention results from the causes beyond such Party's control ("Force Majeure"). Force Majeure shall include, but are not limited to, the following:

- (a) Acts of God such as storms, floods or earthquakes;
- (b) Civil disturbances such as riots, strikes, revolutions, rebellions or insurrections;
- (c) Accidents or disruptions such as fires or explosions;
- (d) Any acts, laws, decrees, priorities, orders or regulations of any governmental authorities (national or local) including embargoes, quarantines, prohibitions of trade (including delays or failure to act), and delays or failures to issue any necessary license, permit or export or import authorization; or
- (e) Hostilities, invasions, wars (declared or not), or nuclear incidents.

ARTICLE 7. [REVISIONS]

- 7.1 KEPCO E&C shall have the right to request and subsequently to order the Contractor from time to time during the performance of the Services to make any changes to the Services for the modification, addition or deletion of any part of the Services, provided that such changes fall within the general scope of the Services.

The Contractor shall promptly inform KEPCO E&C if the change result in changes to schedule and/or price and the Parties shall in good faith negotiate such schedule and/or price changes.

- 7.2 Notwithstanding Paragraph 7.1 above, any changes made necessary due to any default of the Contractor in the performance of its obligations under the Contract shall not be deemed to be the changes under Paragraph 7.1 above and such changes shall not result in any adjustment of the Contract Price.

ARTICLE 8. [INDEMNITY]

- 8.1 The Contractor shall indemnify, defend, and hold harmless KEPCO E&C and its successors and assignees, their directors, officers, agents and employees from and against any and all claims for loss or damages including bodily injury or death suffered by anyone whomsoever, or any property damage of third party, arising directly or indirectly or claimed to arise out of the Contractor's negligent conduct or negligent performance of the Services or resulting from the negligent performance by the Contractor's employees in the performance of the Services.
- 8.2 The Contractor, at its own expense, shall defend any suit or action brought against KEPCO E&C where the Contractor has agreed to indemnify and defend KEPCO E&C as provided in Paragraph 8.1 above, and shall pay all such judgments against each of them including reasonable attorney's fees and expenses arising and resulting therefrom. The Contractor shall keep KEPCO E&C fully informed of the progress of any such suits or actions, and shall agree to consult with KEPCO E&C at all reasonable times in regard to the progress of such suits or actions.

ARTICLE 9. [WARRANTY AND LIABILITY]

- 9.1 The Contractor warrants that it shall completely perform the Services for KEPCO E&C according to the provisions of this Contract, especially Appendix A [Scope of Services and Method of Performance].
- In the event the Contractor ceases the performance of the Services due to any other reasons than those permitted by provisions of the Contract, KEPCO E&C may claim damages arising out of or resulting from such nonfulfillment. In such case, KEPCO E&C shall have right to reject the payment invoiced by the Contractor for the performance of the Services.
- 9.2 The Contractor warrants that it shall perform the Services for KEPCO E&C with degree of skill and care ordinarily exercised as professionals performing similar services under similar circumstances and conditions and making commercially utmost use of its skill and experience in an efficient, economic and thorough manner within its areas of expertise, in accordance with sound and currently acceptable engineering and management standards, practices, procedures, applicable laws and regulations.

- 9.3 In the event any of the Contractor's Services do not conform to the standards set forth in Paragraphs 9.1 and 9.2 above, KEPCO E&C shall promptly notify the Contractor of any nonconformity. The Contractor shall, at its own expense, upon receipt of written notice from KEPCO E&C, perform any additional Services necessary to correct the nonconformity so that negligent errors or omissions therein are removed to the reasonable satisfaction of KEPCO E&C. Any claims by KEPCO E&C for re-performance of the Contractor's Services shall be made within one (1) year from completion of such Services.
- 9.4 The Contractor's aggregate limit of liability to KEPCO E&C for the Services, arising from violation of its obligations under this Contract, shall not exceed the total Contract Price set forth in Article 3. The limitations of liability set out shall not operate to exclude Contractor's liability for Contractor's willful misconduct or gross negligence.

ARTICLE 10. [PERFORMANCE GUARANTEE]

As a security for satisfactory performance of its obligation under this Contract, the Contractor shall provide KEPCO E&C with an unconditional irrevocable performance guarantee in a form of a bank guarantee or standby L/C furnished by a bank designated by KEPCO E&C. The guaranteed amount shall be ten percent (10%) of the Contract Price, and the duration shall be at least from Execution Date of this Contract until thirty (30) days after the end of Contractor's Services period described in Article 17 [CONTRACT PERIOD]. The guarantee amount shall be forfeited to KEPCO E&C and not be returned to the Contractor, in case of the Contractor's material breach of the Contract.

ARTICLE 11. [OWNERSHIP OF DATA AND PROPRIETARY INFORMATION]

- 11.1 All the reports and technical documents developed for KEPCO E&C by the Contractor under this Contract shall become the property of KEPCO E&C.
- 11.2 The Contractor shall keep confidential all the data and information provided and designated by KEPCO E&C as confidential or proprietary and shall not divulge them to any third parties.
- 11.3 Contractor shall retain any pre-existing intellectual property ("IP") and hereby grants to KEPCO E&C and its affiliates an irrevocable, non-exclusive, fully paid world-wide sublicensable license to use the Contractor's IP and/or any embedded IP to the extent necessary to utilize results of the Services under this Contract.

ARTICLE 12. [SUSPENSION AND EXTENSION]

- 12.1 KEPCO E&C shall have the right to suspend or extend the completion of the Services for any reason upon fifteen (15) days prior written notice to the Contractor.
- 12.2 The completion shall be suspended or extended by a period of time reflecting the effect of the suspension or extension.
- 12.3 The Contractor shall resume the suspended Services within the earliest reasonable date after receipt of KEPCO E&C's request to do so, but not later than thirty (30) days following receipt of such notice.

ARTICLE 13. [TERMINATION]

- 13.1 KEPCO E&C may at any time terminate the Contract, with or without cause by giving the Contractor a fifteen (15) days' notice in writing ("Termination Notice"). Upon receipt of KEPCO E&C's Termination Notice, the Contractor shall either immediately or upon the date specified in the Termination Notice cease all further Services.
- 13.2 The Contractor shall be paid compensation for the Services performed up to the date of termination except in case the termination is made due to the Contractor's default.
- 13.3 In the event termination as described in Paragraph 13.1 above is made due to the Contractor's default or breach of obligations hereunder, the Contractor shall be liable to KEPCO E&C for all loss, damages and expenses as a result of such termination. In such case, KEPCO E&C shall have the right to reject payment to the Contractor.

ARTICLE 14. [ASSIGNMENT AND SUBCONTRACT]

- 14.1 Neither this Contract nor the benefits or obligations under this Contract shall be sold, assigned or transferred by either Party to any third parties including subsidiary or affiliated companies without the prior written approval of the other Party, with such approval not to be unreasonably withheld. In the event the approval is given by a Party for assignment or transfer, such an approval shall not relieve the other Party from any liability and/or responsibility under this Contract.
- 14.2 Any subcontract, modification or termination hereof relating to the performance of the Services by the Contractor shall not be made without the prior written approval of KEPCO E&C.

ARTICLE 15. [DISPUTES AND ARBITRATION]

- 15.1 All disputes, controversies or differences which may arise between the Parties, out of or in relation to or in connection with this Contract, or for the breach thereof, if not settled by mutual agreement, shall, at the option of the initiating Party and upon written notice to the other Party,

be finally settled by arbitration in Seoul, Korea in accordance with the International Arbitration Rules of the Korea Commercial Arbitration Board and under the laws of the Republic of Korea.

15.2 The award rendered by the arbitrator(s) shall be final and binding upon both the Parties concerned.

ARTICLE 16. [GOVERNING LAW]

All discrepancies, controversies or differences, or the validity, construction and performance of the Contract shall be governed by and interpreted in accordance with the laws of the Republic of Korea, without regard to its conflict of laws principles.

ARTICLE 17. [CONTRACT PERIOD]

The period of the Contractor's Services shall be until _____ from the Execution Date. However, notwithstanding the forgoing, the contract period shall be regarded as the period from the Execution Date of this Contract to the expiration date of all rights and responsibilities including the Contractor's warranty, liability, settlement of all tax obligations, and any other obligation under this Contract.

ARTICLE 18. [LIQUIDATED DAMAGES FOR DELAY]

In the event that, for reasons attributable to Contractor, the Services are delayed beyond the completion date specified in the Contract documents, the Contractor shall pay liquidated damages to KEPCO E&C, not as a penalty, in an amount of zero point one two five (0.125) percent of the amount of each delayed portion for each day of delay. The liquidated damages shall not exceed ten (10) percent of the total Contract Price.

KEPCO E&C is entitled to deduct such liquidated damages from any payment due to the Contractor.

ARTICLE 19. [SEVERABILITY]

In the event that any articles, provision, portion or application thereof is held to be unenforceable or invalid by any court of competent jurisdiction, the validity and enforceability of the remaining provisions, portions or applications thereof shall not be affected thereby.

ARTICLE 20. [NOTICE]

All notices, communications and approvals required or permitted to be given hereunder shall be given in writing in English and shall be made to the address of the parties concerned in one of the following means ;

- Personal delivery to the designated representative of each of the parties ;
- by registered post ; or
- by email

the specific designation of the parties as set forth below ;

If to KEPCO E&C :

KEPCO Engineering & Construction Co., Inc.
 269, Hyeoksin-ro, Gimcheon-si,
 Gyeongsangbuk-do, 39660, the Republic of Korea
 Attention: Mr. _____
 Tel: +82-54-421-_____
 E-mail: _____@kepc0-enc.com

If to the Contractor :

 Attention: _____
 E-mail: _____
 Fax No.: _____

Either Party hereto may change its address by a notice given to the other Party in the manner set forth immediately above. Notice given as herein provided shall be considered to have been given upon receipt.

ARTICLE 21. [INFRINGEMENT OF INTELLECTUAL PROPERTY]

In the event any suit, claim, action or proceeding against KEPCO E&C or their designee arises from allegations that any proprietary rights arising from the Services provided by the Contractor under this Contract, including without limitation the computer programs, or any portion thereof constitute infringement of any patent, copyright, trade secret, Know-How, or any other proprietary right of any third party, the Contractor shall defend KEPCO E&C's or their designee's right, title and interest to the same against such suit, claim, action, or proceeding at the Contractor's expense and shall hold KEPCO E&C and their designee harmless from any damages or losses of any kind including without limitation legal fees. If as a result of such suit or proceeding, the proprietary rights or any part thereof is held to constitute an infringement and the use of said proprietary rights, or any part thereof, is enjoined, the Contractor promptly shall, at his option and expense, either procure for KEPCO E&C the right to continue using said proprietary rights, or the part thereof, or replace the same with non-infringing proprietary rights acceptable to KEPCO E&C.

ARTICLE 22. [ACCEPTANCE OF THE SERVICES]

- 22.1 The Contractor shall give KEPCO E&C written notice as soon as it has completed the Services. Within fifteen (15) calendar days after receipt of such notice, KEPCO E&C shall notify in writing whether to accept those Services or request Contractor for correction of any unfinished work or deficiencies.
- 22.2 If the Contractor performs or corrects the unfinished work or deficiencies and notifies KEPCO E&C that all such items of unfinished work or deficiencies have been corrected, KEPCO E&C shall give the Contractor the written notice of acceptance ("Acceptance of Services") within fifteen (15) calendar days thereafter.
- 22.3 If KEPCO E&C fails to give notice of acceptance in the manner and at the times provided above, the Services shall be deemed to have been accepted by KEPCO E&C for all purposes of this Contract. The Acceptance of Services by KEPCO E&C shall in no event be considered a release of the Contractor's responsibilities, within the warranty period specified in Article 9.

ARTICLE 23. [RESPONSIBILITIES OF THE PARTIES]

- 23.1 KEPCO E&C's Responsibilities
- 23.1.1 KEPCO E&C shall provide available, data, criteria and other necessary information to the Contractor in a reasonably expeditious manner for the Contractor to perform the Services.
- 23.2 The Contractor's Responsibilities
- 23.2.1 The Contractor shall obtain necessary customary local licenses, permits, authorizations, customs clearances and handling, and agreements required for the Contractor to do business in the jurisdiction in which the Services are performed. The costs related to this Paragraph shall be for the Contractor's account.
- 23.2.2 The Contractor, its employees and agents shall comply with all legal provisions, regulations and safety rules for work applying in the territories in which the Services are carried out.

ARTICLE 24. [LANGUAGE AND UNITS]

The text of this Contract, technical specification or documents shall be made in English. The metric system and units shall be used for all principal instruction, instrumentation and other operating parameters. However, the foot-pound system can also be used in addition for reference.

ARTICLE 25. [TIME ZONE/TIME PERIOD]

Any reference in this Contract to a specific time shall refer to Korea Standard Time (KST).

ARTICLE 26. [DRAFTING]

Each of the Parties hereto acknowledges that each Party was actively engaged in the negotiation and drafting of this Contract and that no law or rule of construction shall be raised or used which the provisions of this Contract shall be construed in favor or against any Party hereto because one is deemed to be the author thereof.

ARTICLE 27. [ENTIRE AGREEMENT]

This Contract constitutes the entire agreement and understanding between the Parties as to the subject matter of this Contract and merges and supersedes all previous discussions, agreements and understanding of any and every nature between them. This Contract shall not be amended except by written agreement of the Parties.

ARTICLE 28. [CONTRACTUAL INTEGRITY]

- 28.1 The Contractor shall not offer or grant any bribes or undue benefits, including money, other articles, or treats, either directly or indirectly to any officials concerned, in the process of bid, award of contract, execution or performance of contract.
- 28.2 The Contractor shall not engage in any unfair practices that unreasonably undermine fair competition in a bid, such as bid-rigging or collusion to render the award of contract to a particular participant.
- 28.3 In the event of violation of the above, KEPCO E&C shall be entitled to:
 - 1) terminate any contract with the Contractor including this Contract; and/or
 - 2) prohibit the Contractor from participating in any bids invited by KEPCO E&C for the period of two (2) years, and the Contractor shall not raise any objections or file any civil or criminal claims against KEPCO E&C for any measures taken by KEPCO E&C.
- 28.4 The Contractor shall be deemed to have signed and accepted the Integrity Pact attached hereto by signing this Contract.

ARTICLE 29. [EFFECTIVENESS]

This Contract shall be entered into full force and effect upon the signing of this Contract by the parties hereto.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be executed in duplicate each of which is deemed an original, by their respective duly authorized representatives as of the date first above written in the Preamble.

KEPCO Engineering & Construction Co., Inc. _____

By: _____
Name: Lee, Joon Chul
Title: General Manager

By: _____
Name:
Title:

B INTEGRITY PACT

Integrity Pact

In connection with conducting any business transactions with KEPCO Engineering & Construction Co., Inc. (KEPCO E&C), the undersigned hereby covenants the following:

1. We shall not offer or grant any bribes or undue benefits, including money, other articles, or treats, either directly or indirectly to any officials concerned, in the process of bid, award of contract, execution or performance of contract.
2. We shall not engage in any unfair practices that unreasonably undermine fair competition in a bid, such as bid-rigging or collusion to render the award of contract to a particular participant.

We acknowledge that, in case of breach of the above covenants, any of our contract with KEPCO E&C may be terminated and we may not be allowed to participate in any bidding invited by KEPCO E&C.

We will fully comply with this Integrity Pact, and will not raise any objections or file any civil or criminal claims against KEPCO E&C for the measures taken by KEPCO E&C.

By:_____

Name:_____

Title:_____

C. PAYMENT TERMS

Contractor shall submit the invoice to KEPCO E&C when each TO is finished according the to the task plan in the TO. Actual working hours and hourly rates for each TO shall be included in the invoice. Any amount exceeding the contract price of each Task (ceiling for each Task) shall not be reimbursed to the Contractor. Contractor will be paid for each Task within thirty (30) days after the receipt of the Contractor's invoice.

D. NON-DISCLOSURE AGREEMENT

THIS NON-DISCLOSURE AGREEMENT (the "**Agreement**") is made and entered into as of this [Date, Month, and Year] (the "**Effective Date**"), by and between:

KEPCO Engineering & Construction Co., Inc., a company organized and existing under the laws of the Republic of Korea, having its principal place of business at 269, Hyeoksin-ro, Gimcheon-si, Gyeongsangbuk-do, 39660, Republic of Korea ("**KEPCO E&C**"),

and

[Company Full Name], a company organized and existing under the laws of [Country], having its principle place of business at [Address] ("**Receiving Party**").

KEPCO E&C and the [Company Abbreviated Name] are individually referred to as a "Party", and collectively as the "Parties".

RECITALS

WHEREAS, the Parties have signed Contract for "_____"
("Purpose"); and

WHEREAS, the Parties anticipate that Contract will involve the disclosure of confidential or proprietary information owned or controlled by KEPCO E&C ("Disclosing Party") to the Receiving Party and desire to undertake certain measures to protect any such information from unauthorized use or disclosure.

NOW, THEREFORE, in consideration of the foregoing premises and the mutual covenants provided herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby agree as follows:

1. "Confidential Information" shall mean any information, ideas or materials now or hereafter owned by or otherwise in the possession or control of, or otherwise relating to, the Disclosing Party of a confidential nature, including but not limited to proprietary samples, designs, specifications, calculations, data, reports, drawings, process, formula, method, know-how, trade secret, business-related information, technical information, marketing information, engineering information, construction information, and other information relating to Purpose, which may be disclosed by the Disclosing Party to the Receiving Party in connection with the Purpose. Confidential Information shall also include all copies, summaries, analyses, or extracts of such information, ideas or materials disclosed by the Disclosing Party, based thereon or derived therefrom.
2. The Receiving Party shall:
 - (a) limit the dissemination of Confidential Information within its organization to only those employees having a need for access,
 - (b) protect Confidential Information from disclosure to third parties with at least the same degree of care (but no less than a reasonable degree of care) as it uses to protect its

- own Confidential Information of like kind from unauthorized use or disclosure,
- (c) use Confidential Information only for the Purpose expressly stated above, and
- (d) not copy or reproduce the Confidential Information without the written consent of the Disclosing Party, except for such copies as may be required for the Purpose.

3. The obligations of Paragraph 2 above shall survive termination of this Agreement, provided that such obligations shall not apply to any information that the Receiving Party can prove by corroborated evidence:
 - (a) was or is developed for the Receiving Party by persons who had not been exposed to Confidential Information;
 - (b) was publicly available at the time of disclosure or became publicly available through no fault of the Receiving Party and without breach of this Agreement by the Receiving Party or any affiliate, agent, consultant or employee of the Receiving Party; or
 - (c) was or is rightfully received by the Receiving Party from a third party without limitation or restriction on its disclosure at the time of disclosure by such third party and without breach of this Agreement.

The Receiving Party shall not use nor disclose Confidential Information in reliance on any of the foregoing exemptions without notifying the Disclosing Party in writing of its intended reliance at least fourteen (14) days in advance of use or disclosure. Confidential Information shall not be deemed to be within the foregoing exceptions merely because it may be embraced by more general information in the public domain or in the Receiving Party's possession. Confidential Information embodied within a combination of features available in the public domain or in the Receiving Party's possession shall not be deemed to be within the foregoing exceptions unless the combination of features itself is in the public domain or in the Receiving Party's possession.

4. No information proprietary to the Receiving Party shall be disclosed to the Disclosing Party under this Agreement. All information, supplies or equipment delivered to the Disclosing Party by the Receiving Party hereunder shall be available for unrestricted use or replication by the Disclosing Party without further compensation to the Receiving Party.
5. The Receiving Party shall not manufacture, reproduce, redesign, alter, modify, break-down, disassemble, reverse engineer, analyze or otherwise attempt to derive the material composition or the physical characteristics of the underlying information, structure or ideas of any tangible materials received as Confidential Information from the Disclosing Party. The Receiving Party may not use the Confidential Information to perform any services outside the scope of this Agreement. The Receiving Party shall promptly destroy, upon completion or termination of the Contract, whichever is earlier, all Confidential Information including but not limited to prepared, developed or generated information, document, material or any tangible information by the Receiving Party without retaining a copy of any such information. The Receiving Party shall upon request, certify in writing such destruction within reasonable period.
6. No warranty, license, right or immunity under any patent or other intellectual property is intended to be granted to the Receiving Party by this Agreement.
7. This Agreement shall be considered to have been entered into and construed in accordance with the laws of the Republic of Korea, without regard to conflict of laws principles.
8. This Agreement shall be effective from the Effective Date hereof, and continue in effect

for 10 years from the completion and/or termination of the Contract, KCN04-23-XX, whichever is the later, provided that all obligations attaching to Confidential Information disclosed shall survive such termination.

9. The Receiving Party warrants that any subcontractor of the Receiving Party having access to or contact with any Confidential Information shall be subject to an agreement having obligations of confidentiality which are at least as restrictive as those contained herein. The Receiving Party warrants that such subcontractor shall have access only to such Confidential Information which is absolutely necessary to enable subcontractor to perform its duties in accordance with this Agreement.
10. All information, including drawings, designs, specifications, calculations, blueprints, flowsheets, sketches, descriptions, data, samples and other tangible material pertaining to the Confidential Information shall remain the property of the Disclosing Party. At request of the Disclosing Party, the Receiving Party shall promptly return all such tangible information, and copies thereof, to the Disclosing Party.
11. The Receiving Party agrees to comply, and do all things necessary for the other Party to comply, with all applicable laws, regulations and ordinances, including, but not limited to, any applicable export control laws and regulations, insofar as they relate to the activities to be performed under this Agreement. Each Party agrees to obtain any required government approvals prior to export of any technical data disclosed to it or the direct product related thereto.
12. This Agreement contains the entire agreement between the Parties as to the subject matter hereof and supersedes and replaces all previous written or oral understandings, agreements, negotiations, commitments, or representations, and any other writings or communications in respect to such subject matter. No amendment of this Agreement shall be effective unless in writing and signed by both of the Parties.
13. The Receiving Party agrees that money damages shall not be a sufficient remedy for any breach of this Agreement by it and that in addition to all other remedies which may be available, the Disclosing Party shall be entitled to specific performance and injunctive or other equitable relief, without bond, as a remedy for any such breach or threatened breach in accordance with the procedures set out in Paragraph 14 of this Agreement.
14. Any dispute or claim, whether based on contract, tort, statute or other legal or equitable theory arising out of or in connection with this Agreement, if not settled by mutual agreement, shall be finally settled by arbitration in Seoul, Korea in accordance with the International Arbitration Rules of the Korean Commercial Arbitration Board by one or more arbitrators appointed in accordance with the said Rules, provided that a Party may seek appropriate interim injunctive relief pending the formation of the arbitration panel. In the event of any legal action to enforce this Agreement or to recover damages or other relief on account of any breach of this Agreement, the prevailing party will be entitled (in addition to any and all other remedies) to recover any and all costs and expenses (including, without limitation, reasonable attorneys' fees) that it may incur in connection with such action.

IN WITNESS WHEREOF , the Parties hereto have executed this Agreement as of the date first above written.

KEPCO Engineering & Construction Co., Inc. ABC

By_____

By_____

Name:

Name:

Title:

Title:

E. Certification of Matters relating to Restrictions on Conclusion of Negotiated Contracts

• Mark ✓ in [] where applicable.

Employer	Name KEPCO Engineering & Construction Co., Inc. (KEPCO E&C)	Department	Date
	Procurement Item [] Construction Service [] Other Service [] Goods [] Other		

Prospective Contractor (Representative)	Name	Position	[] Individual [] Corporation [] Organization [] Other
	Phone: E-mail:	Address	

Matters for Verification

1	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> - A high-ranking public servant belonging to the Employer - The spouse of the public servant above - A lineal ascendant or lineal descendant of the public servant above - A lineal ascendant or lineal descendant of the spouse of the public servant above (only if the ascendant or descendant lives together with the public servant) 	<p>[] Yes [] No [] N/A</p>
2	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> - A public servant in charge of duties related to the relevant contract effectively and legally - The spouse of the public servant above - A lineal ascendant or lineal descendant of the public servant above 	<p>[] Yes [] No [] N/A</p>

	<ul style="list-style-type: none"> – A lineal ascendant or lineal descendant of the spouse of the public servant above (only if the ascendant or descendant lives together with the public servant) 	
3	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> – A high-ranking public servant belonging to the institution which supervises the Employer (i.e., relevant affiliated public institution) – The spouse of the public servant above – A lineal ascendant or lineal descendant of the public servant above – A lineal ascendant or lineal descendant of the spouse of the public servant above (only if the ascendant or descendant lives together with the public servant) 	<p>[] Yes [] No</p> <p>[] N/A</p>
4	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> – A high-ranking public servant belonging to the public institution which is the parent company of the Employer (i.e., relevant subsidiary company) – The spouse of the public servant above – A lineal ascendant or lineal descendant of the public servant above – A lineal ascendant or lineal descendant of the spouse of the public servant above (only if the ascendant or descendant lives together with the public servant) 	<p>[] Yes [] No</p> <p>[] N/A</p>
5	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> – A member of the National Assembly who serves as a member of a Standing Committee overseeing the Employer – The spouse of the member of the National Assembly above – A lineal ascendant or lineal descendant of the member of the National Assembly above – A lineal ascendant or lineal descendant of the spouse of 	<p>[] Yes [] No</p> <p>[] N/A</p>

	the member of the National Assembly above (only if the ascendant or descendant lives together with the member of the National Assembly)	
6	<p>Are any of the Prospective Contractor's employees or the Prospective Contractor any of the following?</p> <ul style="list-style-type: none"> - A local council member who audits and inspects or investigates the Employer - The spouse of the local council member above - A lineal ascendant or lineal descendant of the local council member above - A lineal ascendant or lineal descendant of the spouse of the local council member above (only if the ascendant or descendant lives together with the local council member) 	<p>[] Yes [] No</p> <p>[] N/A</p>
7	In case any of the matters in No. 1 ~ 6 above is/are answered as yes, is the Prospective Contractor a corporation or an organization which employs as an executive officer such person(s) falling thereunder?	<p>[] Yes [] No</p> <p>[] N/A</p>
8	<p>In case any of the matters in No. 1 ~ 6 above is/are answered as yes, is the Prospective Contractor a specially related business entity with respect to such person(s) falling thereunder?</p> <p>* Specially related business entity: In case the prospective contractor is a corporation or an organization, whose (1) at least 30/100 of the total number of issued stocks, (2) at least 30/100 of the total number of equity interests, or (3) at least 50/100 of the total capital, are solely or jointly owned by such person(s) himself or herself, or his or her spouse, lineal ascendant, or lineal descendant – including lineal ascendant or descendant of the spouse of such person(s) where the ascendant or descendant lives together with such persons(s).</p>	<p>[] Yes [] No</p> <p>[] N/A</p>

Certification/Confirmation

I/we hereby certify/confirm the information in relation to Article 12 of the Act on the Prevention of Conflict of Interest Related to Duties of Public Servants as provided above. I/we pledge to be subject to any penalties or liabilities under law if any of the information provided above is not true and correct.

[Name of	Name:	YYYY/MM/DD
Prospective Contractor]	Position:	(Signature)
