

**Project Idea Note for JCM Project (Provisional Draft)**  
 民間資金を中心とする JCM プロジェクトの記入指針及び記入例

<b>PIN reference number</b>	<i>(For the secretariat use only)</i>
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All the information described in this document is at the pre-implementation stage and may change as the project develops. (入力フォントは Times New Roman、フォントサイズは 11pt でお願いします)

1. Basic project information	
<b>1.1. Date of Submission</b>	<u>15/05/2023</u> (PIN の最終提出日 形式は dd/mm/yyyy)
<b>1.2. Partner country</b> (A host county where the planned project is located)	<u>Republic of XXX</u> (パートナー国名は別資料 (パートナー国名一覧表) で正式国名を確認の上記載する JCM パートナー国以外での事業の提案の場合は正式国名を確認の上記載する)
<b>1.3. Title of the planned project</b> (Should be self-explanatory and clearly indicate the activity leading to GHG emissions reductions / removals)	<u>30MW Binary Power Generation Project at YYY, ZZZ</u> (事業名に国名は入れないでください。)

The Joint Committee makes the result publicly available, including the PIN reference number, the name of the planned project, the date of submission in the above, and the reason for objection when the Joint Committee objects to the planned project described in the PIN through the JCM website.

2. Project participants and contact information	
<b>2.1. Representative Japanese participant for the project and its roles in the project</b> (For identification of the person in charge for the project in terms of communication) (代表事業者の主な窓口担当に関する情報)	
Name of the entity (Company, etc.):	<u>ABC Corporation</u> (事業者名)
Roles of the entity in the project:	<u>1. Project Administration</u> <u>2. Submission of Monitoring Result to MOEJ</u> (事業者の役割、事業の実施責任、MRVの報告等)
Address of the contact entity:	<u>X-XX-X, YYY, ZZZ-ku, Tokyo</u> (代表事業者住所)
Website of the contact entity:	<u>http://www.abc.corp.jp/english/</u> (英語のウェブサイトのアドレス)
Name and position of the main contact person in the entity:	<b>Last name:</b> <u>Chikyu</u> (姓) <b>First name:</b> <u>Midori</u> (名) <b>Position:</b> <u>Manager</u> (役職) (窓口担当者名及び役職)
E-mail of the main contact person:	<u>Midori.chikyu@abccorp.jp</u> (窓口担当者のメールアドレス)
Phone number of the main contact person:	<u>+81-3-XXX-XXXX</u> (窓口担当者の電話番号)
<b>2.2. Japanese participant(s) for the project and their roles in the project except for the entity in 2.1.</b> (If possible, please indicate the contact person of each entity involved in the project) (日本の事業者に関する情報) 日本の共同事業者がいる場合はご記入ください。複数いる場合は欄を追加して全ての共同事業者をご記入ください。)	
Name of the entity (Company, etc.):	日本の共同事業者がいる場合に記入する。なければ N/A としてください。
Roles of the entity in the project:	<u>N/A</u>
Address of the entity:	<u>N/A</u>

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Website of the entity:	<a href="#">N/A</a>
Name and position of the contact person in the entity:	<b>Last name:</b> <a href="#">N/A</a> <b>First name:</b> <a href="#">N/A</a> <b>Position:</b> <a href="#">N/A</a>
E-mail of the contact person:	<a href="#">N/A</a>
Phone number of the contact person:	<a href="#">N/A</a>
<b>2.3.1 Participant(s) of partner country for the project and their roles in the project</b> (If possible, please indicate the contact person of each entity involved in the project) (パートナー国の共同事業者に関する情報 複数の場合は、欄を追加してすべての事業者分を記入する。)	
Name of the entity (Company, etc.):	<a href="#">YYY Power Supply</a> (共同事業者名)
Roles of the entity in the project:	<a href="#">1. Project management as facility owner</a> <a href="#">2. Instruction of O&amp;M</a> <a href="#">3. Provision of Monitoring Data to Representative Participant</a> (共同事業者の役割 (事業の実施責任、MRV の報告等) を記入)
Address of the entity:	<a href="#">X-XX-X, YYY, ZZZ, Republic of XXX</a> (共同事業者の所在地)
Website of the entity:	<a href="http://www.yyy.power.supply.xx/english/">http://www.yyy.power.supply.xx/english/</a> (英語ウェブサイトアドレス)
Name and position of the contact person in the entity:	<b>Last name:</b> <a href="#">XXX</a> (姓) <b>First name:</b> <a href="#">YYY</a> (名) <b>Position:</b> <a href="#">Deputy Director</a> (役職) (共同事業者の担当者の名前と役職)
E-mail of the contact person:	<a href="mailto:xxxyyy@yyy.power.supply.co.xx">xxxyyy@yyy.power.supply.co.xx</a> (担当者の E メールアドレス)
Phone number of the contact person:	<a href="#">+XX-X-XXX-XXXX</a> (担当者の電話番号)
<b>2.3.2 Participant(s) of partner country for the project and their roles in the project</b> (If possible, please indicate the contact person of each entity involved in the project)	
Name of the entity (Company, etc.):	<a href="#">ZZZ Energy Development</a> (共同事業者名)
Roles of the entity in the project:	<a href="#">1. Facility operation and maintenance</a> <a href="#">2. Monitoring of GHG emissions and data collection</a> (共同事業者の役割 (事業の実施責任、MRV の報告等) を記入)
Address of the entity:	<a href="#">X-XX-X, YYY, ZZZ, Republic of XXX</a> (共同事業者の所在地)
Website of the entity:	<a href="http://www.zzzenergy.development.xx/english/">http://www.zzzenergy.development.xx/english/</a> (英語ウェブサイトアドレス)
Name and position of the contact person in the entity:	<b>Last name:</b> <a href="#">XXX</a> (姓) <b>First name:</b> <a href="#">YYY</a> (名) <b>Position:</b> <a href="#">Manager</a> (役職) (共同事業者の担当者の名前と役職)
E-mail of the contact person:	<a href="mailto:xxxyyy@energy.development.co.xx">xxxyyy@energy.development.co.xx</a> (担当者の E メールアドレス)
Phone number of the contact person:	<a href="#">+XX-X-XXX-XXXX</a> (担当者の電話番号)
<b>2.4.1 Relevant ministry or governmental agency of partner country</b> (If possible, please indicate the contact person) (本事業に関する情報を共有したパートナー国の政府に関する情報を記入する。複数の場合は欄を追加して全ての省庁をそれぞれ記載、特に情報共有をしていなければ空欄)	

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Name of the entity:	<a href="#">Ministry of environment</a> (パートナー国側担当部署)
Address of the entity:	<a href="#">X-XX-X, YYY, ZZZ, Republic of XXX</a> (所在地)
Website of the entity:	<a href="http://www.environment.ministry.xx">http://www.environment.ministry.xx</a> (英語ウェブサイトアドレス)
Name and position of the main contact person in the entity:	<b>Last name:</b> <a href="#">XXX</a> (姓) <b>First name:</b> <a href="#">YYY</a> (名) <b>Position:</b> <a href="#">Director</a> (役職) (主担当者の姓、名、役職)
E-mail of the main contact person:	<a href="mailto:xxxyyy@CMEA.gov.xx">xxxyyy@CMEA.gov.xx</a> (主担当者の E メールアドレス)
Phone number of the main contact person:	<a href="tel:+XX-X-XXX-XXXX">+XX-X-XXX-XXXX</a> (主担当者の電話番号)
Is the project information already shared with the entity?	<input checked="" type="checkbox"/> Yes ( <i>Briefly explain the status below</i> ) <input type="checkbox"/> No <a href="#">On January 15, 2023, project information was shared with Ministry of environment.</a> (事業に関する情報は既に共有されているか。されている場合は「Yes」、されていない場合は「No」のいずれかにチェックがされていること) (原則として、事業に関する情報を既に共有した省庁のみを記載するため、Yesの場合は詳細を記載してください。Noの場合は空欄に N/A とご記入ください。情報を共有した政府機関が複数ある場合は適宜欄を追加して記入してください)
<b>2.4.2 Relevant ministry or governmental agency of partner country</b> (If possible, please indicate the contact person) (本事業に関する情報を共有したパートナー国の政府に関する情報を記入する。複数の場合は欄を追加して全ての省庁をそれぞれ記載、特に情報共有をしていなければ空欄)	
Name of the entity:	<a href="#">Ministry for Energy</a> (パートナー国側担当部署)
Address of the entity:	<a href="#">X-XX-X, YYY, ZZZ, Republic of XXX</a> (所在地)
Website of the entity:	<a href="http://www.energy.ministry.xx">http://www.energy.ministry.xx</a> (英語ウェブサイトアドレス)
Name and position of the main contact person in the entity:	<b>Last name:</b> <a href="#">XXX</a> (姓) <b>First name:</b> <a href="#">YYY</a> (名) <b>Position:</b> <a href="#">Manager</a> (役職) (主担当者の姓、名、役職)
E-mail of the main contact person:	<a href="mailto:xxxyyy@ENR.gov.xx">xxxyyy@ENR.gov.xx</a> (主担当者の E メールアドレス)
Phone number of the main contact person:	<a href="tel:+XX-X-XXX-XXXX">+XX-X-XXX-XXXX</a> (主担当者の電話番号)
Is the project information already shared with the entity?	<input checked="" type="checkbox"/> Yes ( <i>Briefly explain the status below</i> ) <input type="checkbox"/> No <a href="#">On January 15, 2023, project information was shared with the Ministry for Energy.</a> (事業に関する情報は既に共有されているか。されている場合は「Yes」、されていない場合は「No」のいずれかにチェックがされていること) (原則として、事業に関する情報を既に共有した省庁のみを記載するため、Yesの場合は詳細を記載してください。Noの場合は空欄で構いません)

<b>3. Project information</b>	
<b>3.1. Summary of the planned project</b>	
Description of the project: (Project implementation scheme, role of each participant, etc. Insert an image of the implementation structure in section 5)	<p><u>This is a project to construct a 30MW Binary Geothermal Power Plant in YYY, ZZZ.</u>  <u>ABC Corporation serves as the representative participant of this project and administers the entire project including MRV reporting. YYY Power Supply, a partner participant, the largest geothermal company in XXX, will own and operate the new geothermal power plant. They will receive the monitoring data from ZZZ Energy Development and provide to ABC Corporation.</u>  <u>ZZZ Energy Development operates the facility and maintain the appropriate operation of the facility. They also conduct daily monitoring and collect data of the GHG emission reduction through the operation of the facility.</u>  <u>The generated power will be sold to YYY Power Supply, which will replace the fossil-fuel based power and significantly reduce greenhouse gas (GHG) emissions.</u></p> <p>(プロジェクトのスキームが具体的に説明、各参加者の役割等を記入)</p>
Location of the project	<p><u>YYY, ZZZ, Republic of XXX</u>  (事業の実施場所)</p>
Technologies, products, systems, services, infrastructure, or implementation of mitigation actions to be adopted for the project, and a brief description of them:	<p><u>Compact and excellent durability geothermal turbine generator system (30,000kW) will be adopted.</u>  <u>(1) ABC's super-rotor technology is applied in order to achieve longer continuous reliable operation of the plant.</u>  <u>Super-rotor technology solves various problems to the equipment caused by severe geothermal corrosive steam and protect from the damage and degradation due to aging.</u>  <u>(2) The auxiliary equipment such as condensers, heater/evaporator, gas extraction system, and pumps are optimized to minimize the power consumption and achieve maximum output.</u>  <u>Outline of the Binary Geothermal Power Plant is illustrated on Page 8.</u></p>
Status and progress of the project (Feasibility study, license application status, etc.):	<p><u>A Special Land Use Permit has been granted by XXX government in 2023 to occupy and manage leasehold and public forest lands for this purpose, and a 25-year use permit has been secured starting in 2023 (power plant, transmission lines, wells, access roads).</u>  <u>Grid connection permit approved, local government approval obtained, non-duplication certification verified, environmental compliance certificate approved.</u></p> <p>(事業の進捗状況 (許認可の取得状況等) を記入する)</p>
<b>3. 2. Expected scale of investment</b>	<p>Total project costs: <u>USD75,000,000.00</u>  In project currency: <u>XXX1,004,906,250,000.00</u>(本事業使用通貨額)  In Japanese Yen: <u>10,125,000,000</u>(日本円換算額) @ <u>1.007/100XXX</u> (適用為替レート)  Breakdown (in project currency):(費用内訳)  1. <u>Turbine Generator:USD30,000,000.00</u>  2. <u>Switchyard and connection asset: XXX267,975,000,000.00</u>  3. <u>Transformers, Switchboards, VFDs, Electric modules, DC, UPS : XXX133,987,500,000.00</u>  4. <u>Installation: XXX200,981,250,000.00</u></p>

In Japanese Yen には、In Project currency の円換算額を記載。

<b>3.3. Applicable JCM methodology(ies)</b>	<input type="checkbox"/> Existing methodology(ies) ( <i>Please specify below</i> ) (適用できる方法論が既に存在する場合、方法論番号を記入する 例 XX AM023) <input checked="" type="checkbox"/> New methodology(ies) needed ( <i>Briefly explain the status below</i> ) <u>The development of a new methodology will start in parallel with the facility installation.</u> <u>Emission reductions are calculated by multiplying electricity generated by the geothermal power plant and emission factor in YYY area.</u> (方法論の開発が新たに必要な場合にチェック。開発予定や見込みがあれば記入。提案済み方法論 (Proposed Methodology) がある場合でも「New methodology(ies) needed」をチェックして、現在の状況をご説明ください。例えば「PM030 は現在パートナー国の承認待ち」等。また、GHG 排出削減量はどのように算出されるのかを簡単に説明する。)
<b>3.4. Expected GHG emission reductions / removals (unit: tCO<sub>2</sub>/year)</b>	<u>72,000 tCO<sub>2</sub>/year</u> (年間の想定 GHG 排出削減/吸収量 (CO <sub>2</sub> 以外の各 GHG の量は CO <sub>2</sub> 換算とする)
<b>3.5. Expected schedule up to the commercial operations date and the project registration under the JCM</b>	<u>01/2024: EPC contract signed</u> <u>02/2024: Start of Design and Manufacturing of the major equipment.</u> <u>04/2025: Start of installation.</u> <u>10/2025: Completion of installation of the system</u> <u>11/2025: Commissioning</u> <u>12/ 2025: Start of commercial operation</u> <u>12/ 2026: Approval of the methodology</u> <u>09/ 2027: Registration of the project</u> (稼働開始予定年月までの予定及び JCM プロジェクト登録予定年月を記入 形式は (mm/yyyy)
<b>3.6. Contribution to Partner Country's NDC (Nationally Determined Contributions)</b>  <div data-bbox="151 1456 558 1971" style="border: 1px solid black; padding: 5px;"> <p>パートナー国の NDC 記載事項を最初に記載する。本案件が NDC 対象分野の範囲に含まれていること、海外からの支援によりより高い目標を目指している場合にはそれに貢献するものであること等について記載する。加えて、他の国家計画などがあれば、それに対する貢献を記載する。IGES が公表している NDC データベースを参照  <a href="https://www.iges.or.jp/jp/pub/iges-indc-ndc-database/en">https://www.iges.or.jp/jp/pub/iges-indc-ndc-database/en</a></p> </div>	<u>The Enhanced NDC increases unconditional emission reduction target of 30%, compared to 25% in the 1st NDC. The commitment will be implemented through effective land use and spatial planning, sustainable forest management which include social forestry program, restoring functions of degraded ecosystems including wetland ecosystems, improved agriculture productivity, energy conservation and the promotion of clean and renewable energy sources, and improved waste management.</u> <u>XXX can increase its contribution up to 43% reduction of emissions in 2030 conditionally, compared to 40% in the 1st NDC, subject to availability of international support for finance, technology transfer and development and capacity building. This project will contribute to the promotion of clean and renewable energy sources by replacing the fossil-fuel based power with the renewable energy. The GHG emission reduction through this project will be monitored for 10 years.</u> <u>The accumulated reduction amount will be issued as the JCM credit and shared between the Republic of XXX and Japan, which will significantly contribute to the emission reduction target of the partner country.</u> (パートナー国 NDC への貢献について記載する)

<p><b>3.7. Contribution other than GHG emissions reductions or removals</b> (Financial contribution should be explained in section 4)</p>	<p><u>Personnel of the partner country will be able to acquire sufficient theoretical knowledge and practical capability for the reliable operation and proper maintenance of the Systems. Classroom training and On-the-Job training will be implemented at the Site during the field test and commissioning.</u>  <u>This project contributes to the following SDGs ;</u>  <u>Goal 5: This project will create jobs in the community and women workers will have equal job opportunities. The employees will have opportunities to receive technical and management training regardless of the gender.</u>  <u>Goal 7: Generated power will replace the fossil fuel-based energy, which promotes energy transformation in XXX.</u>  <u>Goal 12: This project will contribute to the sustainable development of the society in XXX.</u>  <u>Goal 13: This project will reduce the GHG emissions in the XXX, which will contribute to the mitigation of the global environmental change.</u>  <u>Goal 17: This project will promote partnership between Japan and XXX</u>          (GHG排出削減/吸収以外の貢献について記載する)</p>
<p><b>3.8. Credit allocation</b> (この部分は以下の例に倣ってご記入ください。)</p>	
<p>Select one of the following:  <input type="checkbox"/> Credit allocation is still under discussion among project participants.  <input checked="" type="checkbox"/> Project participants propose a preliminary percentage of credit allocation as below, <i>understanding the condition that numbers will be decided by the Joint Committee at the time of project registration:</i>          *In case the project expects to receive financial support from the Government of Japan, the Government of Japan determines a preliminary percentage of credit allocation.</p>	
<p>Partner country (Government and project participants) (パートナー国側の配 分割合及び年間削減量)          パートナー国の配分割合は 1 から日本の配分割合(%)を引いた残りとする。 (小数点以下第 1 位まで求める)          パートナー国の年間 GHG 削減量は年間 GHG 削減量から日本側の年間 GHG 削減量を引いた残りとする。(整数で求める)</p>	<p>19.8 % 14,223tCO2/year</p>
<p>Japan (Government and project participants) (日本側の配分割合及び年間削 減量)          日本側の配分割合は例えば、(日本側の資金貢献額 (円)) / (Total Project Cost (円)) で得たパーセントの小数点以下第 2 位を四捨五入し、小数点 以下第 1 位まで求め、日本側の配分割合とする。          日本側の年間 GHG 削減量は「年間 GHG 削減量×日本側の配分割合(%)」 で算出した数値の小数点以下第 1 位を四捨五入し、整数で日本側の年間 GHG 削減量を決める。</p>	<p>80.2 % 57,777tCO2/year</p>
<p>The reason for the above credit allocation:</p>	<p><u>Along with the JCM rules and guidelines, the credit allocation will be determined at the registration to be the JCM project by the Joint Committee between the governments of Republic of XXX (正式国名) and Japan taking into account contributions made by each side.</u>  <u>The preliminary allocation above is proposed based on the following standard formula:</u>  <u>A percentage of JCM credits that Japan will acquire from a JCM project (%)</u>  <math display="block">= \frac{\text{Amount of financial support from Japan}}{\text{Total project cost}} \times 100</math></p>

この欄は  
 ・正式国名  
 ・日本側の資金貢献額  
 ・Total Project Cost  
 ・日本側配分割合  
 以外は例示通りに記入し  
 てください。

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	<p><u>Where</u>  <u>“Japan” is the Government of Japan and Japanese participants.</u>  <u>“Amount of financial support from Japan” is the actual amount of financial support utilized by the project participants to implement the JCM project.</u>  <u>“Total project cost” are capital expenditures(CAPEX) and operating expense(OPEX) directly contribute to GHG emission reductions or removals.</u></p> <p><u>For this project, the amount of financial support provided by Japan is supposed to be Japanese Yen (JPY)8,120,250,000 (日本側資金貢献額) , and the total project cost is approx. JPY 10,125,000,000 (Total Project Cost) . Therefore, the proposed preliminary credit allocation to Japan is 80.2% (日本側配分割合) (= JPY8,120,250,000 (日本側資金貢献額) / JPY10,125,000,000 (Total Project Cost) × 100).</u></p>
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4. Financial contribution	
<i>(Please indicate which government support is expected; otherwise, explain in the "Other" section.)</i>	
<input type="checkbox"/> <b>Financial support from the Government of Japan: Select one of the following</b>	<b>Fiscal Year of Japan</b>
<input type="checkbox"/> Financing Programme for JCM Model Project by Ministry of the Environment, Japan (MOEJ)	
<input type="checkbox"/> JCM Support Programme administered by the United Nations Industrial Development Organization (MOEJ)	
<input type="checkbox"/> F-gas Recovery and Destruction Model Project by MOEJ	
<input type="checkbox"/> Japan Fund for the JCM administered by the Asian Development Bank (MOEJ)	
<input type="checkbox"/> JCM Demonstration Project by New Energy and Industrial Technology Development Organization (Ministry of Economy Trade and Industry, Japan)	
<input checked="" type="checkbox"/> <b>Other</b> <i>(Please explain how the project will be financed and what financial contribution or economic incentive will make the project viable.):</i>	<u>2023</u> (PIN 提出年度を記載)

(別添1)

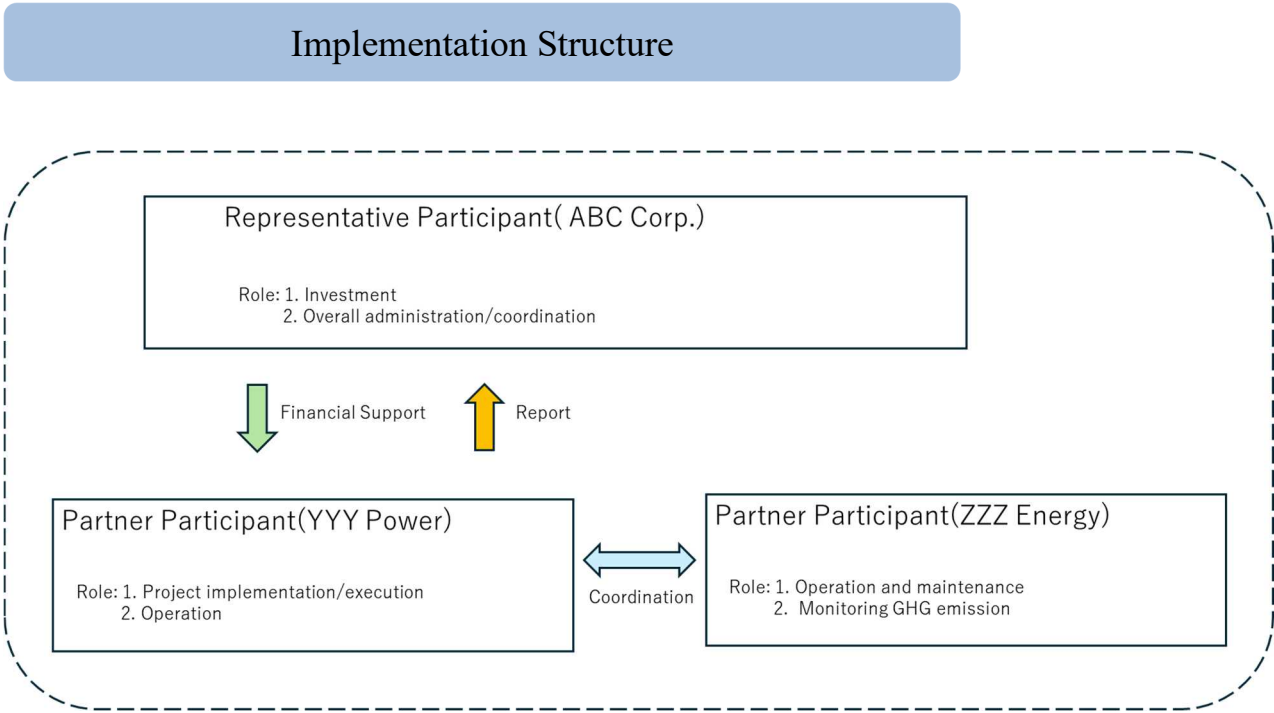
## 5. Implementation structure

Please insert an image of the implementation structure including financial flows below:

英語の事業実施体制図を貼ってください。

代表事業者等の日本側事業者から、資金貢献等があることを記載してください。

表中に代表事業者、共同事業者の役割を明示してください。



## Outline of the Binary Geothermal Power Plat

技術の概要図を貼ってください

PIN 最終提出日  
形式 dd/mm/yyyy

Revision history of PIN		
Version	Date	Contents revised
1.0	15/05/2023	First version
	dd/mm/yyyy	
	dd/mm/yyyy	

\*Project participants fill in this section when they submit a revised PIN to the Joint Committee.

\*Rows may be added, as needed