Ⓒ R&D Plan(Main Doc1)

* This form is for Part 1 of the R&D plan, which researchers complete and attach to the government-wide integrated research support system.
* Ensure to check the final form attached to the project announcement according to the National R&D Innovation Act Enforcement Rules.
* This page is unnecessary for submission and should be deleted before completion.
* Refer to the table below for the total research period and months, aligning the fiscal year for the "Plan for Using R&D Budget" in the IRIS system.
* R&D budget status: Enter in units of thousand won.

|  |  |  |
| --- | --- | --- |
| **S.Korea – EU Cooperation**  **Promotion Project** | **R&D Period** | **Budget** |
| Total R&D Period | 2024.10.01.**∼**2025.09.30. | 25,000 thousand Won |
| Current R&D Period | 2024.10.01.**∼**2025.09.30. | 25,000 thousand Won |

※ The above schedule is subject to change bassed on project progress.

**R&D Plan PART2(Writing format)**

**Body1**

# < Body 1 >

|  |  |  |
| --- | --- | --- |
| **Project**  **name** | **Korean** |  |

**< EvaLuation Panel and SpeciaLized Filed(Applying Field)>**

|  |  |
| --- | --- |
| **심사분과** | Evaluation Panel |
| **전문분야(접수분야)** | Specialized Filed(Applying Field) |
| **Applying Field**  **(Annoucement)** |  |

|  |  |
| --- | --- |
| **Classification** | **Content** |
| Evaluation panel | Choose one from the five academic classifications by the National Research Foundation (Natural Sciences, life Sciences, Medical Sciences, Engineering, ICT and Convergence Research). |
| Specialized Filed (Applying fields) | Select the appropriate evaluation field for the research plan content from the detailed RB (Research Board) options under the application field (CRB). |

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**2. Goals and Content of R&D ····························································································································**

1. **Details, Methods, Implementation System, and Schedule of the R&D Project ··························**
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5. **Commercialization Strategy and Plan for R&D Outcomes**

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1. **Necessity of R&D**
   1. **Overview and importance**
   2. **Domestic and international status of the research target**
   3. Content and results of previous research (if applicable)
2. **Goals of R&D Project**
   1. **Final and detailed goals**

|  |  |
| --- | --- |
| **Final Goal** |  |
| **detailed Goal** |  |

* 1. Key evaluation points for the final review (combined qualitative and quantitative, set approximately 5 per year with a total weight of 100%)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Classification** | **Annual** | **Main points of inspection/evaluation** | **Weight** | **Related targets** |
| Final Evaluation | *-* |  |  |  |

* 1. **Basis for setting inspection/evaluation main points**

|  |  |
| --- | --- |
| **Evaluation focus** | **Basis for setting goals** |
|  |  |
|  |  |
|  |  |

**Instructions (Delete upon submission)**

* + - Necessity of R&D: Articulate the necessity for this research and development project by addressing the current state, issues, and future prospects both domestically and internationally. Clearly outline the importance and need for domestic R&D in this context. If applicable, describe previous research conducted by the principal investigator or participating researchers that is closely related to this project.
    - Objectives of R&D: Clearly define the research and development objectives by categorizing them into final objectives, detailed objectives, and annual objectives.
    - Evaluation Criteria: Establish around five qualitative and quantitative evaluation criteria. These criteria will be used to assess the achievement of research objectives during the final evaluation. While performance targets such as publications and patents are acceptable, ensure to include representative evaluation criteria that demonstrate the excellence of the R&D. For quantitative evaluation criteria, specify the conditions and environments of the research and experiments.
    - Basis for Setting Evaluation Criteria: Provide a rationale for each evaluation criterion and annual objective, referencing the current technological level both domestically and internationally.

1. **Project Implementation Details, Methods, Framework, and Schedule**
   1. **Project Implementation Details and Methods**
2. **Project Implementation Details and Methods**
3. **Research and Development Objectives**
   1. Implementation System (Illustrated Diagram)

Joint R&D Institution

Name

Principal Investigator (○○○) and a total of

○○ researchers

Assigned R&D Content

Joint R&D Institution Name

Principal Investigator (○○○) and a total of ○○

researchers

Assigned R&D Content

large Enterprises, Mid-sized Enterprises, Small and Medium

Enterprises, Universities, National/Public Institutes, Government-funded Research

Institutes, Others

Number of Participating Researchers

Development Institution

Participation Status of Main Research and Development Institution

Name of Main Research and

Category

* *Visually represent the implementation system, methods, and procedures for performing the R&D project. If the project is divided into phases, provide details for each phase separately.*

Total Participating Researchers Principal Investigator

(○○○)and a total of ○○ researchers

* 1. **Implementation Details and Schedule**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1st year** | | | | | | | | | | | | | |
| Content | Schedule | | | | | | | | | | | | Responsible person (Institution) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| *e.g.: Planning and data collection* |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Drafting Design Drawings* |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Test Equipment* |  |  |  |  |  |  |  |  |  |  |  |  |  |

1. **International Joint Research Plan**
   1. **Background and Necessity**
   2. **Status of Foreign Principal Investigator and Participating Researchers**
2. **Personal Information of Foreign Principal Investigator**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Country** | **Research Institution** | **Name** | **Major** | **Position** | **e-mail** | **Remarks** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

1. **Major History of the Foreign Principal Investigator** (key papers, awards, major career highlights)
2. **Major History of the Foreign Principal Investigator** (key papers, awards, major career highlights)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **name** | **Affiliation/team** | **Position** | **Major** |
|  |  |  |  |  |
|  |  |  |  |  |

* 1. **Research Scope and Role Division Among Collaborating Institutions**

|  |  |  |
| --- | --- | --- |
| **Research**  **Objective** | **Korea resident researcher’s role** | **Non-Korea resident researcher’s role** |
|  |  |  |
|  |  |  |

* 1. Matching Funds from Foreign Partner (if applicable)(if applicable)

|  |  |  |  |
| --- | --- | --- | --- |
| **Cash** |  | **In-kind** |  |

* + - Specify both cash and in-kind contributions in Korean Won, including the original currency and exchange rate
* Annual research funds and brief itemized budget from the foreign partner:
* Funding organization and program name for the foreign researcher:
  1. International Cooperation and Exchange Plans (specify details such as personnel exchanges, jointly organized seminars, etc.)
  2. Research Outcomes Sharing and Distribution Plans (specify the extent of sharing and the distribution plan for research outcomes)

1. **Utilization Plan and Expected Effects of R&D Outcomes**
   1. **Utilization Plan for R&D Outcomes**
   2. **Expected Effects of R&D Outcomes**

**Instructions (DeLete upon submission)**

* Implementation Methods and System for R&D
* Implementation Methods: Describe the methodologies (approach) to be applied for collecting technical information, securing experts, collaborating with other institutions, achieving R&D goals, and solving problems.
* Implementation System: Illustrate the implementation system for achieving the final R&D goals, considering both domestic and international standards and conditions.
* International Joint Research Plan
* Provide the personal information of the foreign principal investigator.
* Describe the usage of research funds, research personnel, research facilities, role division in joint research, and international cooperation exchange plans.
* Utilization Plan and Expected Effects of R&D Outcomes
* Utilization Plan:
  + Detail the expected fields of application and utilization plans, including commercialization, additional research, and technology transfer.
  + Describe how the outcomes will secure future core technologies and link to applied research for national and industrial benefits.
* Expected Effects: Describe the technological, economic, and social ripple effects of the research outcomes, and their contribution to national science and technology strategy fields.

1. **Implementation Plan for R&D Safety and Security Measures (submitted at the time of R&D project agreement)**
   1. **Safety Measures Implementation Plan**
   2. **Security Measures Implementation Plan**
   3. **Implementation Plan for Other Measures**

**Instructions (DeLete upon submission)**

1. Safety Measures Implementation Plan: Designation and operation of a safety officer, implementation of safety education, and plans for reporting and responding to safety incidents. Include emergency response procedures and actions. If necessary, describe compliance with relevant safety standards, regular and special safety inspections during and after the R&D project, and plans for conducting detailed safety diagnostics.
2. Security Measures Implementation Plan: Security education for researchers, security measures for research facilities and management systems, and security measures for projects conducted jointly with foreign individuals, institutions, or organizations. Include measures for preventing and responding to security incidents according to Article 45(2) of the relevant law.
3. Implementation Plan for Other Measures: Include details on facilities for research involving genetically modified organisms and import notification status, as well as any other safety and security measures required for the specific R&D project.
4. **Commercialization Strategy and Plan for R&D Outcomes**

**(if applicable, selectively apply items based on the characteristics of the R&D project: can be deleted if not applicable)**

* 1. **Domestic and International Market Trends**

1. **Domestic and International Market Size and Import/Export Status**
2. **Major Domestic and International Demand Sources**
3. **Status of Domestic and International Competitors and Technologies**
   1. **Intellectual Property Rights, Standardization, and Certification Criteria Status**
   2. **Standardization Strategy**
   3. **Commercialization Plan**
4. **Commercialization Strategy**
5. **Investment Plan**
6. **Production Plan**
7. **Overseas Market Entry Plan**
8. **Expected Effects of Commercialization**

**Instructions (Delete upon submission)**

* 1. Domestic and International Market Trends: Describe market trends directly related to the technology/product to be developed through the R&D project.
     1. Domestic and International Market Size and Import/Export Status: Separate into domestic and international

markets, and describe the current and expected market size and import/export status at certain points after the project’s completion.

* + 1. Major Domestic and International Demand Sources: list major domestic and international demand sources, including names, countries, demand volumes, and related products.
  1. Status of Intellectual Property Rights, Standardization, and Certification Criteria: Describe the status of relevant

intellectual property rights held by domestic and international institutions and competitors.

* 1. Standardization Strategy: Describe the standardization strategy related to the technology/product to be developed through the R&D project, both domestically and internationally.
  2. Commercialization Plan:Detail the commercialization plan by each research and development institution
     1. Commercialization Strategy: Describe the promotion, market development, and sales strategies for the technology/product to be developed through the R&D project.
     2. Investment Plan: Outline the investment plan of the research and development institution for the commercialization of the technology/product to be developed through the R&D project.
     3. Production Plan: Detail the production plan for the product to be developed through the R&D project.
     4. Overseas Market Entry Plan: Describe the overseas market entry plan for the product to be developed through the R&D project.
     5. Expected Effects of Commercialization: Explain the employment creation effects, economic contributions, social value contributions, and regional ripple effects of the commercialization of the technology/product to be developed through the R&D project.