**Program Management Unit: Competitiveness (PMU-C)**

**Full Proposal 2023**

**Global Partnership to increase the country’s competitiveness**

**[N48 (S4P23) Global Partnership]**

|  |  |
| --- | --- |
| Strategic no 4 | Development of people, higher education, research institute to be the foundation of sustainable and fast driving of country’s economic and society  |
| Program | **S4P23 Global partnership and center of ASEAN** |
| Main platform | **N48 (S4P23) Global Partnership** |
| Objective | ..............................use information from NRIIS system to fill.......... |
| Main Key Result | .............................use information from NRIIS system to fill.......... |
| Second Key Results | ..............................use information from NRIIS system to fill.......... |

# General Information

|  |  |
| --- | --- |
| Project title (Thai) | ...................................................................................................................... |
| (English) | ...................................................................................................................... |

|  |  |
| --- | --- |
| Name of project leader (Thai)  | ........................................ ........................ |
| (English) | ................................................................................................................... |
| Position | .......................................... | Organisation | ............................................ |
| Address | ................................................................................................................ |
| Telephone | .......................................... | Fax | ............................................ |
| Email | ................................................................................................................... |

|  |
| --- |
|  |
| Signature ..................................................................... |
|  ( ) |
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| --- | --- |
| Name of applicant’s director of organisation | ................................................................................................................. |
| Position | .......................................... | Organisation | .......................................... |
| Address | ................................................................................................................. |

|  |  |
| --- | --- |
| Duration of project (Total) |  ......... Year, From year ............. to year ............. |

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Total budget (in cash and in kind from all partners)(Baht) | Funding from PMUC(Baht) | Funding from private sector |
| In cash | In kind |
| Baht |  % of total in cash  | Baht | % of total in kind |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |

**Status of project** ❑ **New** ❑ **Continued project to year…….. (2 or 3)**

**Type of project** ❑ **multi-projects** ❑ **single project**

Have you applied this project to other grants?

 ❑ No

 ❑ Yes, to ..........………..……………………

 ❑ Granted from (granting agency name) ..........………………………………………….

Name of Project …………………………………………………………………………………………………………

 Identify the different from the current submitted project………………………............………..

 ❑ under consideration

# Abstract and Keywords (no longer than 1 A4)

 **Abstract (Thai)** …………….………………………………………..…………………………………

 **Abstract (English)** ………………..……………………………………………………………….......

**Keyword (Thai):** ……………………………..…………………………………………………………

**Keyword (English):** ……..………………………………………………………………............……

# Researchers detail (Attached everyone CV at the end of proposal)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name of researchers** | **% Time that spend in this project** | **% Responsibilities** |
| **(1)** | Project leader |  |  |
|  | Organisation |
|  | Expertise |
| **(2)** | Project member |  |  |
|  | Organisation |
|  | Expertise |
| **(3)** | Project member |  |  |
|  | Organisation |
|  | Expertise |
|  | 100 % |

# Product information / Technology that will be developed in this project

1. **Categories under BCG Economy, select one choice**
* Agriculture and Food
* Medical and Health
* Energy, chemical and biomaterials
* Circular Economy
* Future Mobility
* Creative Economy and Tourism
* Digital Platform
* Metaverse

 **4.2 Activities of project under Global Partnership, can be selected more than 1 choice**

* Technology transfer
* Technology absorption
* Co-product development
* Co-research
* Joint Laboratory
* Networking forum/workshop
* others ................................................
	1. **Summary of Product and Technology** (explain characteristics and properties of product, service or technology that would be developed, how to use, its advantages and value proposition to the users and industries, any photos or drawing of the products or flowchart)
	2. **Type of Technology**

□ product □ process □ service □ business model □ others

* 1. **Intellectual property**

□ Yes, Patent no  issued fromTitle

 Petty patent no issued fromTitle

□ Being submission

 Patent submission no date of submission

Title

Petty patent submission no date of submissionTitle

□ Trade secret

□ Not yet submission

* 1. **Any product or technology that similar to yours, competitors** (Give the information compared to similar products or technology, direct and indirect competitors)

| **Topic that would like to compare***(For example performance, efficiency, function, production, quality, process, cost, safety etc.)*  | **Your product or technology** | **Competitor 1****(Organisation, country)** | **Competitor 2****Organisation, country)** | **Competitor 3****Organisation, country)** |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# Markets and users

* 1. **Size and Trend of market**
	2. **User specification or requirement**
	3. **Thai partners (Government/company) (attached the letter of intent from the partners as well)**

Name of Organisation (Thai)

Name of Organisation (English)

Date of business registrationno

Establish: Registered capital:Baht

Paid registered capital: Baht on date:

Thai shareholder (%) International shareholders (%)

AddressTelephone

Type of Business

|  |
| --- |
| 🞎 Large Enterprise 🞎 SME 🞎 Startup🞎 Spin off🞎 International company that registered in Thailand and more than 50% Thai shareholders 🞎 International company that registered in Thailand and less than 50% Thai shareholders |

* 1. **Background of the company**
	2. **Strength of the company**
	3. **Users/stakeholders through the supply chain (maybe more than one)**

|  |  |
| --- | --- |
| User | Plan and direction to utilize |
| 🞎 Company who co-funding in this project |  |
| 🞎 another producer |  |
| 🞎 other users  |  |

* 1. **Possibility to commercialization**

|  |  |  |  |
| --- | --- | --- | --- |
| Company prepared budget to invest in this product | 🞎 Yes | 🞎 No | 🞎 In the process of collecting data |
| Company has made product business model | 🞎 Yes | 🞎 No | 🞎 In the process of collecting data |
| Plan or roadmap to submit for any standard (FDA etc.) | 🞎 Yes | 🞎 No | 🞎 In the process of collecting data |
| Product can be launched to the market by | 🞎 within 2 years | 🞎 2-5 years | 🞎 more than 5 years | 🞎 In the process of collecting data |

# International Partners (Government/company) (attached the letter of intent from the partners as well)

* 1. **Information**

Name of Organisation (Thai)

Name of Organisation (English)

Date of business registration no

Establish: Registered capital: Baht

Paid registered capital: Baht on date:

Thai shareholder (%) International shareholders (%)

Address Telephone

Website……………………………………………………………………………………………..

Business detail………………………………………………………………………………………

* 1. **Background** of the organisation

# ..................................................................................................................................................................................................................................................................................................................................

* 1. **Strength** of the organisation

# ..................................................................................................................................................................................................................................................................................................................................

# Background of this project

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# Research rational

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# Objectives

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# Literature review

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# Previous work (not more than 1 A4)

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# IP landscape/searching

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...............................................................................................................................………….............

# Related standard or regulation

...........................................................................................................................…………….............

...............................................................................................................................………….............

# Technology or social readiness level

* **Technology Readiness Level; TRL** (attach the evidence as well)

**Present TRL**.....................................................................................

**Detail**.................................................................................

**Final TRL when project is finished**.....................................................................................

**Detail** .....................................................................................

* **Societal Readiness Level: SRL**

**Present SRL**.....................................................................................

**Detail**.................................................................................

**Final SRL when project is finished**.....................................................................................

**Detail…………………………………………………………………………………………………**

# Methodology and Plan

* 1. Methodology)

……………………………………………………………………………………………………………

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* 1. Plan of research

|  |  |  |  |
| --- | --- | --- | --- |
| **Detail in step** | **Response person** | **Budget** | **Duration** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| 1.......... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.......... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.......... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4.......... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5.......... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# Place to conduct research (Thailand or Overseas)

| **Country**  | **Province** | **Name of the place/facility/Laboratory** |
| --- | --- | --- |
|  |  |  |
|  |  |  |

# Budget Planning

| **Detail** | **Year 1 (202x)** | **Year 2 (202x)** | **Total** |  ***%***  |
| --- | --- | --- | --- | --- |
| **Term 1** | **Term 2** | **Term 3** | **Term 4** |
| **PMUC.** | ***Partner*** | **PMUC.** | ***Partner*** | **PMUC.** | ***Partner*** | **PMUC** | ***Partner*** | **PMUC.** | ***Partner*** |  |
| ***In*** ***cash*** | ***in kind*** | ***in*** ***cash*** | ***in kind*** | ***in*** ***cash*** | ***in kind*** | ***In*** ***cash*** | ***in kind*** | ***in cash*** | ***in kind*** |
| **1. Salaries** | Per Month **(Baht)**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| * 1. Project leader (name-surname)
 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.2 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.3 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.5 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.7 Researcher (name-surname) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2. Personnel cost** | **Number of persons****(person)** | **Per Month (Baht)**  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.1 research assistant  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.2 technical staff |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **3. Materials and supplies** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  3.1 chemical  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  3.2 *scientific materials* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **4. Prototype****cost** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  4.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  4.2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  4.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **5. Indirect cost** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  5.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  5.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  5.3  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Total Research Budget*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***6.Overhead*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **7. Equipment** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  7.1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  7.2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Grand Total*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***8. Total*** | ***Total*** | ***Percentage*** | ***Total*** | ***Percentage*** | ***Total*** | ***Percentage*** |
|  ***8.1 Total from PMUC*** ***(in cash)*** |  | *%* |  | *%* |  | ***%*** |
|  ***8.2 Total from partner*** |  | *%* |  | *%* |  | ***%*** |
|  ***- in cash*** |  | *%* |  | *%* |  | ***%*** |
|  ***- in kind*** |  | *%* |  | *%* |  | ***%*** |
|  ***8.3 Grand Total*** |  | *%* |  | *%* |  | ***%*** |

# Detail of equipment

| **Equipment** | **Required equipment** | **Reason** | **Usage plan** |
| --- | --- | --- | --- |
| **Status** | **Detail of Existing Equipment****(if have)** | **Present status** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

# Output/outcome/impact

* 1. **Milestone**

| **Year**  | **Month** | **Plan of Activity** | **Output** |
| --- | --- | --- | --- |
| **1** **(2023)** | **1-6** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |
| **7-12** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |
| **2****(2024)** | **1-6** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |
| **7-12** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |
| **3****(2025)** | **1-6** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |
| **7-12** | 1………….2………….3………….4…………. | 1………….2………….3………….4…………. |

* 1. **Prototype (if have)** where to keep, how to utilize and what is the utilization plan?

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……………………………………………………………………………………………………………

* 1. **OKR related Output/Outcome/Impact**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Output** | **Detail of output** | **Unit** | **Outcome** | **Results of outcomes** |
|  |  |  |  |  |
|  |  |  |  |  |

**Output (Main Priority)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **KR** | **Year** | **Amount** | **Unit** | **Affected person** |
|  |  |  |  |  |
|  |  |  |  |  |

**Outcome**

|  |  |  |  |
| --- | --- | --- | --- |
| **KR** | **Year** | **Detail of key results** | **Affected person** |
|  |  |  |  |
|  |  |  |  |

**Impact**

|  |  |  |  |
| --- | --- | --- | --- |
| **KR** | **Year** | **Detail of key results** | **Affected person** |
|  |  |  |  |
|  |  |  |  |

**Output (Second priority)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **KR** | **Year** | **Amount** | **Unit** | **Detail of key results** | **Affected person** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

#

**18.4 I**

# mpact Pathway

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Output** | **Outcome** | **Impact** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# Commercialization plan and market plan

* 1. **Type of project**
* Prototype/Process development (TRL4-7)
* Working Prototype/Process
* Engineering Prototype/Process
* Service & Creative Prototype
* Pre-Commercial Demonstration
	1. **Detail of technology or invention (3-5 sentences) include Technological Evaluation Canvas and Business Model Canvas (see appendix)**
* Original work ....................................................................................
* Original work has patent or not
* No
* Yes, Give Patent detail ………………….....Status: Granted or being submitting …………………………………….
	+ Patent no………………………………………..
	+ Submission no………………………………..
* Technology or invention that will be developed in this project

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* Market opportunity (competitive advantages)

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* Future plan

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# List of the project that you have been managed

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Project** | **Granting agency** | **Year** | **Budget** |
|  |  |  |  |
|  |  |  |  |

***I would like to confirm that all the information in this proposal is original, not copied from other sources and allow all presented information for evaluation and consideration of the project.***

|  |
| --- |
| Signature ..................................................................... |
| ( ) |
| Project leader |

**Appendix**

**Technology Readiness Levels (TRL)**

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**Example**

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**Definition of Impact pathway**

