**Macao Funding Scheme for Key R&D Projects**

**Detailed Proposal**

**Temporary application no.**：

1. **Basic information of the project/topic**

|  |  |
| --- | --- |
| **Related area/field** |  |
| **Research direction** |  |
| **Name of the Principle Investigator** |  |
| **Project and its respective person in charge** | **Name of the project** | **Name of person in charge** | **Institution to which (s)he belongs** | **Name of the cooperation unit, if any** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

1. **Theoretical basis (within 3000 words)**

|  |
| --- |
| Introduce the research rationale to elaborate the necessity, importance and feasibility of conducting the proposed project. This section should include the research significance, research focus, analysis of related research at home and abroad, etc. (Attachment of a reference list recommended), and explain the innovative aspect of the project. |
|  |

1. **Research content (within 5000 words)**

|  |
| --- |
| As a vital part of the proposal, this section should include the working content for meeting the research objective(s), the key problems to be solved, etc. |
|  |

1. **Research Methods (within 5000 words)**

|  |
| --- |
| As a vital part of the proposal, this section should include the research methods to be used, research procedures, experimental design, a feasibility analysis study, etc. |
|  |

1. **Research background**

|  |
| --- |
| 1. **Relevant research background and condition of the applying entity** (state the startup year of the entity and briefly introduce its existing research personnel and equipment; conditions that it has and do not have for the research concerned. If the entity is an enterprise, it should also provide information such as its revenue and major business developments). **(within 2000 words)**
 |
|  |
| **2. Brief introduction of obtained and accumulated research achievements that are relevant to this project (within 1000 words)** |
|  |

1. **Assessable Expected Results**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Results** | **Type of Results** | **Corresponding Topic** | **Assessing Indicator(s)** | **Assessment Method(s) and Evaluation tool(s)**  |
| **Indicator’s Name** | **Index/Status for the Application Stage** | **Expected Index/Status for the Intermediate Stage** | **Expected Index/Status for the Final Stage** |
| 1. XXXXX |   |  | Indicator 1.1 XXXXX |  |  |  |  |
| …… |  |  |  |  |
| 2. XXXXX |  |  | Indicator 2.1 XXXXX |  |  |  |  |
| …… |  |  |  |  |
| … | … |  | Indicator… |  |  |  |  |
| …… |  |  |  |  |

Remarks:

1. Corresponding topic: Corresponding to the topic mentioned in part I “Basic information of the project/topic”.
2. For type of results, please choose from the following options: New theory, new principle, new product, new technology, new method, key component, database, software, application solution, laboratory device/system, clinical guideline/practice, engineering process, standard, dissertation, invention patent, others. If you choose “others”, please specify.
3. Assessing indicator(s) refers to quantitative indicators, technical indicators, qualitative indicators, applicability indicators, industrialization indicators, etc., used for measuring the results concerned. A quantitative indicator can be the quantity of dissertation, patent, product and so on; a technology indicator can be a performance parameter of any key technology, product and the like; a qualitative indicator can be vibration resilience, cold and heat resistance, Mean Time Between Failures, etc.; an applicability indicator can be the applicability to objects, the applicability scope and application effect among others; a industrialization indicator can be the number of achievements that can be industrialized, the economic benefits of the project will bring, etc. Meanwhile, you should fill in the index and status of every indicator for the application stage of the project and the expected index and status for its final stage. Assessing indicator(s) should also include direct and indirect benefits that the project will bring to other major scientific research, social and economic development as well as to the ecological environment, science population and so on. The benefits can be crucial technological support for national projects, social development and improvement in people’s livelihood, technology transfer that fosters the improvement of the environment, increased sales revenue, etc. If the result is groundbreaking, you may put “N” in the field under “Index/status when the application is approved”. If the index/status concerned is hardly definable, you may put “/” in the field.
4. Expected standard/status at the middle stage: participants of the special funding schemes decide whether to fill in the field depending on their way of project management. It is suggested that those who set goals for project progress fill in the field.
5. Assessment method(s): You should use concrete assessment methodology, measuring and testing means, and tools that are compatible with the research results and indicators concerned.

e.g.:

1. If it involves software or a computing platform, you can write 1. Software demonstration, 2. Application demonstration document, 3. User testing report, etc.
2. If it involves biotechnology (ST vague) or new medicines R&D, you can write 1. Sample or product, 2. Research report, 3. Verification report, 4. Product production approval, etc.
3. If it involves general hardware, you can write 1. Sample or product, 2. Research report or application demonstration document, 3. Verification report, 4. Product production approval, etc.
4. **Future Plan for Project Results**

|  |  |
| --- | --- |
| **Future Plan for Project Result Commercialization** | **Please provide the following information** |
| Products Expected to Be Industrialized |  (Introduction to the functions and name of products in relation to project results) |
| Patent Application Expected to Be Filed |  (Patent application expected to be filed in relation to project results) |
| Application in Real-life Situation(s)/ Industry |  (Application of project results in real-life situation(s)/industry) |
| Alignment with Government Policies or Benefits to Society | (Brief introduction to the products’ positive impact on Macao’s society) |
| Expected Availability Date |  (Expected date when products are up for sales in the market) |
| Product Availability by Region |  (Countries or regions in which products are planned for sales) |
| Expected Sales Volume (MOP) |  (Expected sales volumes of products from project results for the applying entity in one year and estimated profit for each product) |
| Product Profit Model |  (Ways to make a profit from the products)  |
| Partner(s) for Product Industrialization |  (Partner(s) in relation to the project) |
| Venture Capital |  (Involvement of any investor) |
| The Applying Entity’s Previous Profit Model |  (The applying entity’s previous operation and profit-making methods) |
| Additional Remarks |  (Please make any additional remarks here) |

1. **Expected project schedule and timelines**

|  |
| --- |
| Detailed project schedule that specifies the timeline for research work at each stage |
|

|  |  |  |
| --- | --- | --- |
| **No.** | **Duration** | **Research content** |
| **1** |  |  |
| **2** |  |  |
| **3** |  |  |
| **4** |  |  |
| **5** |  |  |
| **6** |  |  |
| **7** |  |  |

 |

1. **Information of cooperation unit(s) and any agreement on sharing cooperation research outcomes (if any, within 2000 words)**

|  |
| --- |
| 1. **Introduction of cooperation unit(s)** (State the year of establishment and briefly introduce main business, scale, existing research personnel and equipment and research conditions) **(within 1000 words)**
 |
|  |
| **2. Complementary advantages** (Please state the important effects of the cooperation on project execution, and the problems to be solved or the objectives to be met through the cooperation.) **(within 500 words)** |
|  |
| **3.** **Agreement on sharing cooperation research outcomes** (please attach the cooperation agreement, memorandum or a related draft concluded by the parties involved, where the name of the cooperation unit(s), the proportion of work undertaken by each party and the work content, any sharing in expenses and the allocation of property rights, etc. should be explicitly stated.) **(within 500 words)** |
|  |