CONFIDENTIAL

**NATIONAL SURVEY OF**

**RESEARCH COMMERCIALISATION**

**RMK-9 (2006-2010)**

**Please read the enclosed Questionnaire Guideline before completing this form**

Thank you for your time. The survey is part of MOSTI’s effort in collecting research commercialisation input, activity and outputs for Malaysian publicly funded research organisations.

Please answer each of the following questions to the best of your ability. If you are not able to provide an exact response to a question, please provide your best estimate to each question.

Be assured that great care has been taken to preserve the anonymity of all individual survey participants. The survey is **completely confidential** and will not be used in any manner that may reveal any identifiable information on individuals, individuals companies, business units or R&D units from this survey.

Your valuable inputs are much appreciated.

**Prepared by the**

**Ministry of Science, Technology and Innovation (MOSTI)**

**Malaysian Science and Technology Information Centre (MASTIC)**

**SECTION A: CONTACT DETAILS**

Name of Institution :

Name of unit/s (e.g. RMC, Human Resource) :

Name of person (s) providing the data :

Designation :

Postal address :

Telephone no. :

Fax no. :

Email :

Website :

**SECTION B: COMPANY PROFILE AND COMMERCIALISATION ACTIVITIES**

1. **Commercialisation Personnel**

1a. In what year did your institution establish a unit/department managing commercialisation activities? ………………………………

1b. Number of employees involved in commercialisation activities during the establishment of unit/department managing commercialisation activities and by the end of **2010** (**RMK-9, 2006-2010**)?

|  |
| --- |
| **Number of Commercialisation Personnel** |
| **Year** | **Number of Commercialisation Personnel** | **Number of Commercialisation Supporting Personnel** |
| **Direct Staff** | **Indirect Staff** |
| **Established** |  |  |  |
| **2006-2010** |  |  |  |

1. **Intellectual Property Related Activity**

2a. How many types of intellectual property produced in **RMK-9 (2006-2010)**?

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Output** | **Commercialised Products/****Technology** | **Potential** **Commercialised Products/****Technology** | **Total** |
| Patents Filed |  |  |  |
| Patent Granted |  |  |  |
| Trade Mark |  |  |  |
| Industrial Design |  |  |  |
| Geographical Indication |  |  |  |
| Copyright |  |  |  |
| Layout Design of Integrated Circuit  |  |  |  |
| New Plant Variety |  |  |  |

1. **Patent & Licensing Related Activity**

3a. How many invention disclosure were produced, patent application filed in Malaysia and abroad as well as patent granted in Malaysia and abroad to your institution **RMK-9 (2006-2010)**?

|  |  |  |
| --- | --- | --- |
| **Number of** **Invention Disclosure** | **Number of** **Patent Application (Filed)** | **Number of** **Patent Granted** |
| **Malaysia** | **Abroad** | **Malaysia** | **Abroad** |
|  |  |  |  |  |

3b. Please indicate the number of PCT filed and indicatethecountry where it was filed for **RMK-9 (2006-2010)**.

|  |  |
| --- | --- |
| **Number of PCT applications Filed :** |  |
| **Name of Countries Filed :** | 1. |
| 2. |
| 3. |
| 4. |
| 5. |
| 6. |
| 7. |
| 8. |
| 9. |
| 10. |

3c. Please state the number of licenses/options/assignments according to the most appropriate FIELD OF RESEARCH (FOR) for **RMK-9 (2006-2010)**.

|  |  |
| --- | --- |
|  | **Number of Licenses/Options/ Assignments** |
| **Field of Research (FOR)** | **Executed** | **Executed** **with Equity** | **Active** |
| Mathematical Sciences |  |  |  |
| Physical Sciences |  |  |  |
| Chemical Sciences |  |  |  |
| Biological Sciences |  |  |  |
| Bioinformatics |  |  |  |
| Nuclear Sciences |  |  |  |
| Earth Sciences |  |  |  |
| Environmental Sciences |  |  |  |
| Material Sciences |  |  |  |
| Marine Sciences |  |  |  |
| Biotechnology |  |  |  |
| Engineering and Technology |  |  |  |
| Applied Sciences and Technologies |  |  |  |
| Information, Computer and Communication Technology (ICT) |  |  |  |
| Medical and Health Sciences |  |  |  |
| Agricultural Sciences and Technology |  |  |  |
| Forestry Sciences and Technology |  |  |  |
| Social Sciences |  |  |  |
| Humanities |  |  |  |
| Economics, Business and Management |  |  |  |
| Others (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |  |
| **Total** |  |  |  |

3d. How many of the Licensing / Options /Assignments executed and executed with equity in the financial year reported in 3c above were licences to Start-Up Companies, Small Companies, Medium Companies or Large Companies were exclusive and how many were non-exclusive for **RMK-9 (2006-2010)**?

|  |
| --- |
| **Number of** **Licensing / Options / Assignments Executed** |
| **Start-Ups** | **Small Companies** | **Medium Companies** | **Large Companies** |
| **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-****Exclusive** | **Sole** |
|  |  |  |  |  |  |  |  |  |  |  |  |

|  |
| --- |
| **Number of Licensing / Options / Assignments Executed with Equity** |
| **Start-Ups** | **Small Companies** | **Medium Companies** | **Large Companies** |
| **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-Exclusive** | **Sole** | **Exclusive** | **Non-****Exclusive** | **Sole** |
|  |  |  |  |  |  |  |  |  |  |  |  |

3e. What was the amount of Licensing /Options/Assignments income received at your institution in **RMK-9 (2006-2010)**?

|  |
| --- |
| **Amount Of Income Received** |
| **Licences** | **Options** | **Assignments** |
| **RM** | **RM** | **RM** |

1. **Licensing, Technologies, Post-Licensing Activities**

4a. Please state the total number and the amount received (if applicable) in **RMK-9 (2006-2010)** for the activities listed in the table below

|  |  |  |
| --- | --- | --- |
| **Institution’s Licensed or Assigned Technologies** | **Total Number** | **Amount (RM)** |
| Available for consumer (public) or commercial use |  |  |
| Purchased by the government: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Exported for oversea usage |  |  |

1. **Funding Related to Commercialising Activities**

5a. Please provide the sources of funds as well as amount received and spent for the commercialising activities for **RMK-9 (2006-2010)**.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **SOURCE OF FUNDS** | **RECEIVED****(RM)** | **SPENT****(RM)** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |
| **GRAND TOTAL** |  |  |

1. **Start-Up Companies**

6a. How many Start-up Companies were formed during **RMK-9 (2006-2010)** and how many have their place of business operating in Malaysia or abroad?

|  |  |
| --- | --- |
| **Year** | **Number of Start-Up companies formed** |
| **Malaysia** | **Abroad** |
| **2006-2010** |  |  |

6b. How many Start-up Companies became non-operational at the end of RMK-9 (2010) and how many is in Malaysia or abroad?

|  |  |
| --- | --- |
| **Year** | **Number of Start-Up companies became non-operational (*as of the last day in the 2010*)** |
| **Malaysia** | **Abroad** |
| **2010** |  |  |

1. **Technology Transfer**

7a. Please provide the output (including income) according to the different types of technology transfer for **RMK-9 (2006-2010)** as stated below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Types of Technology Transfer** | **Select****(/)** | **Outputs** (Publications/Patent/Invention Disclosure/Licensing/Spin Offs and Starts-Ups) | **Income (RM)** |
| **Research Collaboration** |  |  |  |
| **Contract Research** **(for industry)** |  |  |  |
| **Sales of Services/Trainings** |  |  |  |
| **Sale of Data and Software** |  |  |  |
| **Consultancy** |  |  |  |

1. **Product Sales-Related Success Stories**

8a. Describe products/process/service that you wish to highlight for the **RMK-9 (2006-2010).**

1. Name of IP/Technology: \_\_\_\_\_
2. Description: \_\_\_\_\_
3. Name of Company: \_\_\_\_\_
4. Description of the public benefit and/or economic impact: \_\_\_\_\_\_
5. Main source of funding for the research that underpinned the development of the subject technology? \_\_\_\_\_
6. From which research discipline did the product/process/service originate? *(Please select from the table below)*

|  |  |
| --- | --- |
| **Field of Research (FOR)** | **Please select (√)** |
| Mathematical Sciences |  |
| Physical Sciences |  |
| Chemical Sciences |  |
| Biological Sciences |  |
| Bioinformatics |  |
| Nuclear Sciences |  |
| Earth Sciences |  |
| Environmental Sciences |  |
| Material Sciences |  |
| Marine Sciences |  |
| Biotechnology |  |
| Engineering and Technology |  |
| Applied Sciences and Technologies |  |
| Information, Computer and Communication Technology (ICT) |  |
| Medical and Health Sciences |  |
| Agricultural Sciences and Technology |  |
| Forestry Sciences and Technology |  |
| Social Sciences |  |
| Humanities |  |
| Economics, Business and Management |  |
| Others (please specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

**SECTION C: FACTORS LIMITING YOUR ORGANISATION’S COMMERCIALISATION ACTIVITIES**

1. Please indicate your level of agreement towards the internal & external factors that prevent or limit your organisation’s involvement in commercialisation by placing a tick (√) in the column provided base on the following scale:



|  |  |
| --- | --- |
| **FACTORS LIMITING COMMERCIALISATION ACTIVITIES** | **Degree of Agreement** |
| **1** | **2** | **3** | **4** | **5** |
| **Internal Factors** |
| 1. Lack of commercialisation strategy/policy
 |  |  |  |  |  |
| 1. Limited financial resources
 |  |  |  |  |  |
| 1. Lack of skilled commercialisation personnel
 |  |  |  |  |  |
| 1. Lack of infrastructure for commercialisation (space, equipment, etc.)
 |  |  |  |  |  |
| 1. Delay/Red tape in fund management
 |  |  |  |  |  |
| 1. Delay in making decisions by the management
 |  |  |  |  |  |
| 1. Poor commercialisation management
 |  |  |  |  |  |
| 1. Lack of scientific research techniques
 |  |  |  |  |  |
| 1. Poor reward system
 |  |  |  |  |  |
| 1. Limited time due to classes/administrative work
 |  |  |  |  |  |
| 1. Poor management of Intellectual Property
 |  |  |  |  |  |
| 1. Others (please specify): ......................................................................................
 |  |  |  |  |  |

|  |  |
| --- | --- |
| **FACTORS LIMITING COMMERCIALISATION ACTIVITIES** | **Degree of Agreement** |
| **1** | **2** | **3** | **4** | **5** |
| **External Factors** |
| 1. Requirements by the industries prior to commercialisation
 |  |  |  |  |  |
| 1. Limited of Facilitate Fund as required by Industry
 |  |  |  |  |  |
| 1. Weakness of funding channels in Malaysia include the lack of pre-seed and seed funding
 |  |  |  |  |  |
| 1. Industry unwilling to take risks of commercialisation up-scaling
 |  |  |  |  |  |
| 1. Compliance to standards and regulations essential factors for commercialisation
 |  |  |  |  |  |
| 1. Lack of entrepreneurial culture from all the parties involved in technology commercialisation
 |  |  |  |  |  |
| 1. Others (please specify): ......................................................................................
 |  |  |  |  |  |

**COMMENTS**

**We welcome your comments:**

* **On any of the information you have supplied in this Questionnaire**
* **On any questions which caused problems**
* **If you would like to suggest improvements to this Questionnaire**

Thank You for your participation in the National Survey of Research Commercialisation

Please Return the completed survey material to :

**Malaysian Science and Technology Information Centre (MASTIC)**

**Ministry of Science, Technology and Innovation Malaysia (MOSTI)**

**Level 4, Block C5, Complex C**

**Federal Government Administrative Centre**

**62662 PUTRAJAYA**

Or email it to:

lydiachng@mosti.gov.my

ramadhan@mosti.gov.my

denes@mosti.gov.my