**FORM BM I-3d**

**Technology evaluation**

*(For hi-tech manufacture project and establishment of the hi-tech research center)*

# **SOCIALIST REPUBLIC OF VIETNAM**

**Independence - Freedom - Happiness**

**TECHNOLOGY EVALUATION**

# **I. PRODUCTION PROCESS**

**1. Name of technology**

## 2. Source, origin of the technology

Specify source, origin of the technology: Brand, country, time for invention; the process of improvement, upgrade of technology; applicable standards corresponding with each phase.

**3. Production Process**

a) Steps in the Production Process

|  |  |  |  |
| --- | --- | --- | --- |
| **Production process** | **Main features** | **Level of specialization** | **Level of automation** |
| **Product 1** Process 1:Step 1:Step 2:Process 2:Step 1:Step 2:**Product 2***…* |  |  |  |

b) Production process

- The layout drawing of technology chain, storage, and construction works line shall be provided.

- The technological process is described by charts, drawings and principle diagrams, together with the technological description, under the List of High Technologies Prioritized for Development Investment under the Decision No. 66/2014/QD-TTg dated 25 November 2014 and the Decision No. 13/2017/QD-TTg dated 28 April 2017 of Prime Minister.

**4. Modernization of the technology**

- Describe the technological specialization and automation level;

- Describe the hard manual labor;

- Describe the industrial hygiene, labor safety.

**5. Intellectual property rights to the technology**

Specify the information on copyright of technology, the Contract for Technology Transfer (whether contract value is included with equipment or not), etc.

**6. Ratio of waste**

Specify the ratio of damaged products from the production line and ability to recycle.

**7. Description of the products**

Specify the information on each type of products and prove these products under the List of Hi-tech Products encouraged for development under the Decision No. 66/2014/QD-TTg date 25 November 2014 and the Decision No. 13/2017/QD-TTg dated 28 April 2017 of Prime Minister.

- Product 1:

+ Detail: Technical parameters, components, etc. (with the detailed drawings and pictures);

+ Outstanding and preeminent features, application;

+ Applicable quality standards: ….

- Product 2:

….

# **II. PROJECT'S RESEARCH ACTIVITIES**

**1. Research fields**

State the study field of the project.

**2. Research and development activities**

List the research activities, subject or results, output in each phase of the project.

Describe the subject of the research to prove them under the List of High Technologies Prioritized for Development Investment under the Decision No. 66/2014/QD-TTg dated 25 November 2014 and the Decision No. 13/2017/QD-TTg dated 28 April 2017 of Prime Minister.

**3. Research - development expenditure (%)**

Percentage: Research - development expenditure / Total revenue:

- Phase 1 (from year …… to year………): …..%

- Phase 2 (from year …… to year………): …..%

- …..

**4. Content of research - development expenditures**

Describe the content of research - development expenditures in each stage of the project.

**5. Applicable standards**

Specify the technical specification applied to the subject and operations of the research.

# **III. EQUIPMENT**

List the main equipment:

| **Name of equipment** | **Type** | **Main technical features** | **Origin** | **Year of manufacture** | **Year of procurement** | **Conditions**(New or used) | **Level of automation** | **Quantity** | Value of investments |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |

*\* Notes:*

(i) Main technical features: specify functions, features, main parameters: capacity, etc.

(ii) For the used equipment: clarify the used periods or eligibility to import into Vietnam as prescribed by the laws.

**IV. CONSUMPTION OF RAW MATERIALS, FUEL, CHEMICALS, COMPONENTS AND SPARE PARTS**

**1. Consumption of raw materials for a product**

List all types of main raw materials, fuel; components, spare parts, semi-products, etc. of each specific product; state the respective type, quantity (or volume), origin (Vietnam or import) of a product.

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of raw materials, fuel, chemicals, components and spare parts** | **Unit** | **Quantity/ Volume** | **Source** |
| **Vietnamese**(%) | **Import (foreign country)** |
| **1. Product 1**- Material 1 - Material 2…- Fuel 1… - Component, spare part 1…**2. Product 2****…****3. Activity 1****….** |  |  |  |  |

# **2.** **Demand on technical infrastructure**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Phase 1 | Phase 2 | Phase … |
| 1. Water (m3 per month)a. Production areab. Non-production area |  |  |  |
| 2. Electricity (Kw per month)a. Production areab. Non-production area |  |  |  |
| 3. Fuel (liter, Kg, m3 per month)a. Production areab. Non-production area |  |  |  |
| 4.Industrial gas (Kg per month) |  |  |  |
| 5.Telecommunicationa. Number of telephone linesb. Number of ADSL lines- Bandwidth of each ADSL line- Number of leased lines- Bandwidth of each leased lines |  |  |  |
| 6. Others (if any) |  |  |  |

**V. LABOR AND TRAINING**

**1. List of main members (enclosed with the scientific profile)**

Specify the list of main members

**2. Other members:**

Submit the list of the collaborators, qualification and working place.

**3. Direct engagement rate**

Percentage: Number of the employees evolving in the research (at university level or more)/ Total number of employees:

- Phase 1 (from year …… to year………): …..%

- Phase 2 (from year …… to year………): …..%

- …..

# **VI. TECHNOLOGICAL EFFICIENCY**

# Describe the efficiency of production technology, research on improvement of production level, technological renovation, addition of product value, creation of key products and outstanding products.

**VII. OTHERS**

(Enclosed with the specific declaration when required).

 **VIII. COMMITMENTS**

 I hereby declare that all information provided in this application form and the attached documents are true.

|  |
| --- |
| *Dated ......./......./........*AUTHORIZED REPRESENTATIVE OF THE EMPLOYER(Signature and seal)The person who can provide more information (if any) |