**FORM BM I-3a**

**Technology evaluation**

*(For the hi-tech manufacture projects)*

# **SOCIALIST REPUBLIC OF VIETNAM**

**Independence - Freedom - Happiness**

**TECHNOLOGY EVALUATION**

# **I. MANUFACTURE 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. Manufacture 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, 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 (contract value that is attached with the equipment or not), etc.

**6. Ratio of waste**

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

**II. 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:**

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

+ Outstanding and preeminent features, **application**;

+ Applicable quality standards: ….

**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; specify 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**  (%) |
| **1. Product 1**  - Material 1  - Material 2  …  - Fuel 1  …  - Component, spare part 1  …  **2. Product 2** |  |  |  |  |

# **2. Infrastructure requirement**

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

# *\* Notes: Detail the projects using technical infrastructure (electricity, water, etc.) with the special quality standards.*

**V. RESEARCH - DEVELOPMENT (R&D)**

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

Percentage: Research - development expenditure /Total revenue:

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

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

- …..

**2. Content of research - development activities**

Description of content and operation of research - development:

- Phase 1:

- Phase 2:

- …..

# **VI. TECHNOLOGICAL EFFICIENCY**

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

**VII. OTHERS**

(Enclosed with the specific declaration as necessary).

# **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) |