

# Development of a Blue Print for DCSI Technology Request Database

## Background

The Cottage and Small Industry (CSI) play a pivotal role in the overall industrial economy of Bhutan. The CSIs in Bhutan account for more than 95% of the total number of industrial enterprises in the country. Despite contributing to the major share of industrial output in the country and contributing significantly to the national economy, Bhutan's CSI is characterized by problems such as outdated technology, low economy of scale, supply chain inefficiencies, lack of adequate finance and competition from imported goods from other countries. Majority of these enterprises are very similar in nature and technology. There is significant scope for innovation in terms of enhancing productivity and/or improving the overall quality of products and services offered by CSI in Bhutan.

The Department of Cottage and Small Industries (DCSI) under the Ministry of Economic Affairs in Bhutan is the key nodal agency for the promotion of cottage and small enterprises in Bhutan. The mandate of DCSI is to provide various business development services including capacity building of entrepreneurs and startups, create enabling policy environment, provision of startup and innovation facilities, marketing support and provision of information relating to appropriate technologies. DCSI is interested in developing a technology database to disseminate information on various available technologies to the cottage and small industries in Bhutan. Provision of such information has become necessary, as most of the cottage and - small-scale entrepreneurs, particularly startups, lack access to productivity enhancing technologies that are relevant to their businesses.

Based on an invitation from DCSI to assist in developing a blue print for a national technology request database, the Asian and Pacific Centre for Transfer of Technology (APCTT) of the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) undertook a mission to Thimphu, Bhutan during **9-10 April 2019**. The team from APCTT-ESCAP held discussions with senior officials of key Government and private sector stakeholders in Bhutan and brainstormed on the development of a blue print for national technology request database for Bhutan. The stakeholders met include (a) Department of Cottage and Small Industry (DCSI) of Ministry of Economic Affairs; (b) Royal Monetary Authority (RMA) of Bhutan; (c) ICT division of Ministry of Economic Affairs; (c) Bhutan Chamber of Commerce and Industry (BCCI); (d) Department of Intellectual Property of Ministry of Economic Affairs; and (e) Department of Trade, Ministry of Economic Affairs, Bhutan. Based on the discussions with these stakeholders and the inputs and suggestions received from them, APCTT-ESCAP has developed a blue print for the **DCSI Technology Request Database**. It is envisaged that this database will help DCSI in compiling the requirements from various CSIs of Bhutan **for acquisition and upgradation of machinery and technologies**. It was agreed that once this database is developed as a **one-stop shop for**

accessing all technology requests from CSI in Bhutan, APCTT will facilitate disseminating the information through its networks and platforms to identifying technological solutions and facilitate matchmaking.

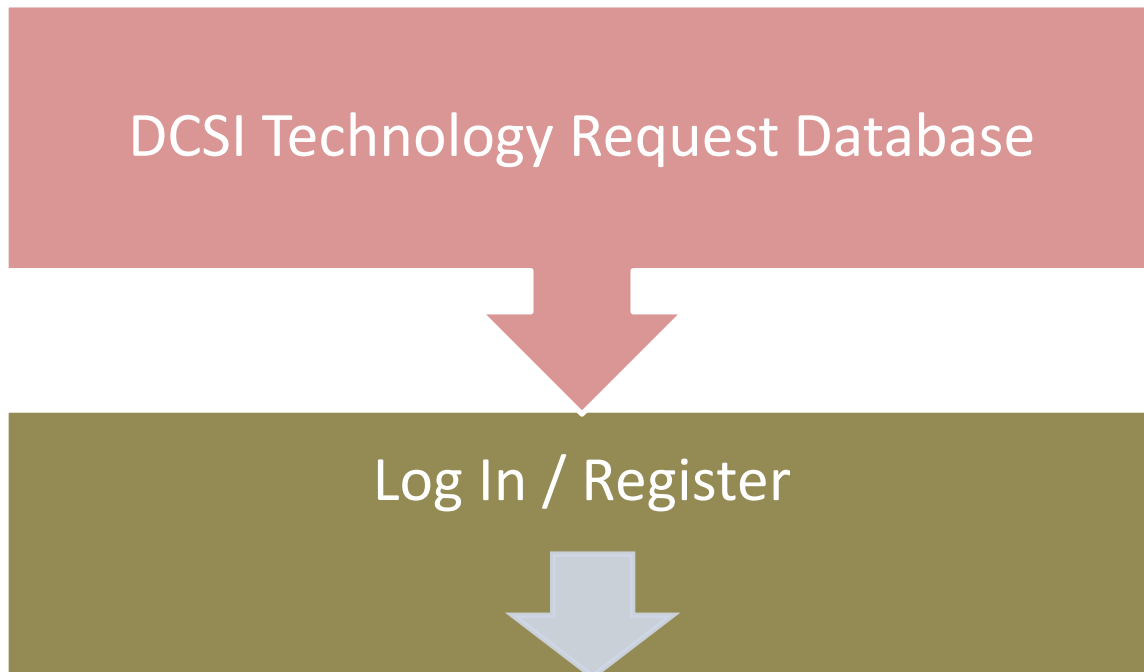
## Proposed Structure of the DCSI Technology Request Database



### DCSI Technology Request Database

* Title of Technology	<input type="text"/>
* Sector	Select
* Country	India
* Description	<input type="text"/>
* Area of Application	<input type="text"/>
* Keywords	<input type="text"/>

## Log In / Registration Process for Accessing DCSI Technology Request Database



**Existing Members Sign In**

Email

Password

New user? [Sign Up](#)

# New User Registration Form

**Username \***

Spaces are allowed; punctuation is not allowed except for periods, hyphens, apostrophes, and underscores.

**E mail address \***

A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by e-mail.

**Self explanatory**

**Name \***

**Designation \***

**Register as \***

Organization  Individual

**Address \***

**Country \***

- Select a value - ▼

**City \***

**Zip/Pin Code \***

**Telephone \***



**Existing Members Sign In**













Email

Password

## Note

In the Registration Form, sections with \* are mandatory fields. In the Self Explanatory information section, the user can briefly share details about his business interests and also fill in information related to what is his / her primary expectation in registering with this database.

## Submit Information to DCSI Technology Request Database

* Title of Technology 	<input type="text"/>
* Sector 	Select 
* Country 	India 
* Description 	<input type="text"/>
* Area of Application 	<input type="text"/>
* Keywords 	<input type="text"/>
* Transfer Terms 	<input type="checkbox"/> Consultancy <input type="checkbox"/> Joint Venture <input type="checkbox"/> Technology Licensing <input type="checkbox"/> Subcontracting <input type="checkbox"/> Technical services <input type="checkbox"/> Others <input type="checkbox"/> Turnkey Plant <input type="checkbox"/> Equipment Supply
Assistance sought from potential partner 	<input type="text"/>
Additional information 	<input type="text"/>
Upload 	<input type="text"/> <input type="button" value="Browse..."/>

### Note

Since DCSI is interested to compile information on the machinery requirement for entrepreneurs and startups in cottage industries in Bhutan under the Rural Industries Development Scheme (RIDS), a simple technology request structure is presented above. The suggestions and guidelines presented in the next page will help in understanding what constitutes an effective technology request and how it will attract potential technology providers.

# Guidelines for Submitting Information to DCSI Technology Request Database

<b>Title of Technology</b> Name the <b>technology or machinery</b> you are requesting. The title would appear in the list of technologies or products requested and help in capturing the attention of the potential seekers. So keep the title simple and clear.
<b>Sector</b> Mention the <b>name of the industrial sector</b> under which your technology or machinery request falls
<b>Country</b> Mention the <b>name of the country from where you intend to buy this technology or machinery</b> (If this information is available to you. Leave it blank if you do not have this information)
<b>Description</b> It is the <b>most important section</b> to be filled. Be more specific and <b>describe in more detail the technology or the machinery / equipment needed for your business</b> . This information helps in locating the most suitable technology / machinery supplier for your request. For additional information related to the technology / machinery that you have and you are willing to share, use the <b>“Additional Information”</b> section (in text format) and <b>“Upload”</b> section (Attachments in Word / PDF / JPEG format).
<b>Area of Application</b> Explain briefly the <b>areas where the requested technology or machinery can be used</b> . This helps the suitable technology or product supplier to place your technology or product request in the right context
<b>Keywords</b> Select a <b>few relevant words that describe your technology or machinery</b> the best. Suitable key words make it easier for potential suppliers to spot your technology or product offer through the website search.
<b>Transfer Terms</b> Indicate your preferred mode of technology transfer or purchase of machinery. Your preferred arrangement must be clearly mentioned. If you are interested in only purchase of machinery or equipment and do not require any guidance or know-how related to the operation of the machinery, choose the option <b>“Equipment Supply”</b> . If you are interested for the entire process including necessary installation and commissioning of machinery / equipment in your premises and you need operational training to initiate the usage of the plant, choose <b>“Turnkey”</b> option. If you want only the technical advisory services including a business feasibility report on a particular technology or machinery, choose <b>“Consultancy”</b> option. If you are interested in jointly setting up an industry or a business venture with potential partners, choose the <b>“Joint Venture”</b> option. In your existing business operation, if you want to outsource a part of your industrial process (such manufacturing or value addition), then choose <b>“Subcontracting”</b> . If you want to buy a technology or equipment to manufacture a product in your country or province which has already been successfully commercialized in another location, use <b>“Technology Licensing”</b> option to acquire the technology or machinery from the technology provider to legally use the technology for your business.
<b>Assistance Sought from Potential Partner</b> Please explain briefly <b>your expectations</b> from the potential technology or machinery supplier. What are the <b>technical and operational assistance requirements</b> expected by you.