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GUIDELINES FOR TSDB DATA RECORDING

Industrial Information Section

Vienna, November 1991

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## 1. Introduction

The Technology Supply Database (TSDB), which is a part of the Industrial and Technological Information Bank (INTIB) of UNIDO, is an international cooperative network for the collection, organization and dissemination of information on technology transfer possibilities. The TSDB database consists of four types of Technology Profiles, viz.

- Technology Offer
- Technology Request
- Joint Venture Offer
- Joint Venture Request

TSDB facilitates the exchange of technology transfer information and facilitates business contacts among developing countries and between developing and developed countries.

The main beneficiaries of the TSDB will be private and public sector agents of small-through-medium-to-large scale enterprises whose abilities to benefit from the access to up-to-date technological and market information will be greatly enhanced. Other beneficiaries will be certain country decision makers and public sector administrators and managers.

The main participants of the TSDB who provide, collect, process, add value and disseminate information are: the INTIB Co-ordination Center, National Focal Points, Focal Points (if any) and public and private sector companies.

By using a standardized method for data gathering and initial data recording based on the TSDB Input Sheets and its computerized version where robust validation facilities are embedded, a high degree of compatibility can be achieved between different INTIB centers, and between computerized and manual methods of TSDB processing.

This document is organized as follows. Section 2 provides some basic explanations dealing with the TSDB Input Sheet structure and the conventions used through the *Guidelines* to describe the TSDB data fields. Section 3 presents the characteristics of all the TSDB data fields. There are also two appendices, the first one contains the look-up tables used within the computerized TSDB system whereas the second one gives the templates of the TSDB Input Sheets.

## 2. Preliminaries

The basic TSDB Input Sheets (see Appendix 2) have been designed to act as a carrier of a minimum set of standardized information being the subject of TSDB activities. The data entered onto the input sheet may refer to information concerning a new, or previously unrecorded companies, technologies, etc. or to supplementary information (update) about the items already recorded and existing within the TSDB database.

The following TSDB Input Sheets have been designed:

- Company
- Technology Offered
- Request for Technology
- Joint Venture Offer
- Joint Venture Request (Invitation)

Each TSDB Input Sheet consists of two parts:

- the *header* containing some coded information;
- the *body* containing descriptive information.

The structure of the field description is given below:

Field name:	
Description:	
Associated table(s):	
Type:	Repeatability:
Obligatory:	Unique:
Retrievable:	Automatic:
Example:	

where the meaning of the entries within the description is as follows

Type                    A - alpha,    N - numeric,    X - A + N,    P - pattern)

Repeatability:    (Yes, No), the field is repeatable or not in the sense

defined for the CDS MICRO ISIS shell.

Obligatory:        (Yes, No), the field must be filled out - Yes, or it is not necessary - No

Unique:            (Yes, No), the value of the field is unique within the

- 
- Retrievable:                    database - Yes, or may be not - No  
                                  {Yes, No}, the value of the field is to be put in the  
                                  Inverted File and may be used further on  
                                  for retrieval - Yes, or is not to be the  
                                  subject of research - No
- Automatic:                    {Yes, No}, the field is filled out automatically by  
                                  the system - Yes, or is supposed to be  
                                  filled out by a person who input the data -  
                                  No
- Example:                      is an example of the field contents

NOTE. The fields which are used for providing links between the object types constituting the TSDB database are not given in Section 3.

### 3. Specification of Fields

The fields are specified according to the format proposed in Section 2.

#### HEADER

**Field name:** Entered by

**Description:** The field contains the name of a person, who keyed in the data from the TSDB form into the system. The format is as follows

*N, FI., SI.*

where *N* is a family name, *FI* - initial of the first name and *SI* - second initial, if any.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Brown, J.K.		

**Field name:** Modified by

**Description:** The field contains the name of a person, who updated the record. The format is as follows

*N, FI., SI.*

where *N* is a family name, *FI* - initial of the first name and *SI* - second initial, if any.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Robson, L.M.		



**Field name:** Seen by

**Description:** The field contains the name of a person from the TSDB HQ, who validates the record. The format is as follows

*N, FI., SI.*

where *N* is a family name, *FI* - initial of the first name and *SI* - second initial, if any.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Thomas, K.B.		

**Field name:** Date of Entering

**Description:** The field contains the date of entering the data into the system. The field is entered in the way YY-MM-DD, where:

YY are the last two digits of the year;  
MM are the digits for the month;  
DD are the digits for the day.

<b>Associated table(s):</b>	None		
<b>Type:</b>	P 99-99-99	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	Yes
<b>Example:</b>	91-12-21		

**Field name:** Date of Last Modification

**Description:** The field contains the date of entering the data into the stem. The field is entered in the way YY-MM-DD, where:

YY are the last two digits of the year;  
MM are the digits for the month;  
DD are the digits for the day.

<b>Associated table(s):</b>	None		
<b>Type:</b>	P 99-99-99	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	Yes
<b>Example:</b>	92-01-22		

**Field name:** Date of Information collection

**Description:** The field contains the date of entering the data into the TSDB Input sheets. In case the information is entered directly into a computer this date should be the same as the "Date of Entering".

The field is entered in the way YY-MM-DD, where:

YY are the last two digits of the year;

MM are the digits for the month;

DD are the digits for the day.

<b>Associated table(s):</b>	None		
<b>Type:</b>	P 99-99-99	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	Yes
<b>Example:</b>	92-01-03		

**Field name:** Date of Monitoring

**Description:** The field contains the dates of monitoring a Company to update the record. The field is entered in the way

YY-MM-DD, where:

YY are the last two digits of the year;

MM are the digits for the month;

DD are the digits for the day.

This date is, in fact, a date of running a batch monitoring program that issues update requests to the TSDB system participants.

<b>Associated table(s):</b>	None		
<b>Type:</b>	P 99-99-99	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	Yes
<b>Example:</b>	92-11-01		

**Field name:** Valid over the period in months (99)

**Description:** The field contains the number of months when the data kept in the record remains valid.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	18		

**Field name:** Record Status

**Description:** The field contains the code of the record status which can be one of the following

N for a new record  
 M for a modified record  
 D for a deleted record

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	Yes
<b>Example:</b>	D		

**Field name:** Send Flag

**Description:** The field contains a one character code which must be one of the two

- T the record to be sent to ICC  
 - M the record already sent to ICC

**Associated table(s):** None

<b>Type:</b>	A	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	Yes
<b>Example:</b>	T		

**Field name:** Record type

**Description:** The field contains a code of the record type. The record types are as follows

- Company  
 - Technology Offered  
 - Request for Technology  
 - Log\_O  
 - Log\_R  
 - Products\_O  
 - Products\_R  
 - Joint Venture Offer  
 - Joint Venture Request

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	Yes

## COMPANY

**Field name:** Company Id

**Description:** The company identifier. Used for distinguishing the companies and to provide links between various object types. The identifier is either provided by the NFP (in this case it is not automatically generated by the system) or generated by the system.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	Yes
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No/Yes

**Field name:** Company name

**Description:** The field contains a full name, preferably in English, of the company being described. The name is as used in official correspondence.

If the name of the company is not unique, the warning is issued by the system

**Associated table(s):** a table of company names which is automatically updated by the system

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** Food Processing Institute

**Field name:** Acronym of the Company

**Description:** If the acronym does not exist, it can be coined from the first letters of the meaningful words in the English name of the company.

If the the company acronym is not unique, the warning is issued by the system

**Associated table(s):** a table of company acronyms which is automatically updated by the system

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** FPI

**Field name:** Street

**Description:** The field contains the street name where the company headquarters is placed. This field is a part of the company address.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** 3, Downing str.

**Field name:** P.O.Box

**Description:** The field contains the company's P.O.Box number. This field is a part of the company address.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** 321

**Field name:** City

**Description:** The field contains the name of the city where the company is placed. This field is a part of the company address.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Lusaka

**Field name:** State/County

**Description:** The field contains the name of the state/county where the company is placed. This field is a part of the company address.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** New Green Field

**Field name:** Country

**Description:** The field contains the name of the country where the company is placed. This field is a part of the company address. The three character alpha code is used.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No
<b>Example:</b>	SWE		

**Field name:** Postal code

**Description:** The field contains the postal code. This field is a part of the company address.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	02-777		

**Field name:** Phone

**Description:** The field contains the phone number( ) of the company. The numbers are separated by ;

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	(00-48-22)-23-34-21; (00-48-22)-12-45-22		

**Field name:** Fax

**Description:** The field contains the fax number(s) of the company. The numbers are separated by ; Put the area code between parentheses.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	(00-48-12)-35-21-36; (00-48-12)-11-25-52		

**Field name:** Telex

**Description:** The field contains the telex number(s) of the company. The numbers are separated by ;

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	813456 clin pl		

**Field name:** Cable

**Description:** The field contains the cable number(s) of the company. The numbers are separated by ;

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	233421 CAB TX		

**Field name:** E-mail/carrier

**Description:** The field contains the e-mail carrier name of the company.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	GEOMUL		

**Field name:** e-mail/user identifier

**Description:** The field contains the e-mail user identifier of the company.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	HROBSOKI@MUL1		

**Field name:** Director

**Description:** The field contains the name of the director of the company.  
The format is as follows

*N, FI., SI.*

where *N* is a family name, *FI* - initial of the first name and *SI* - second initial, if any.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Thompson, L., A.		

**Field name:** Phone

**Description:** The field contains the phone number(s) of the company's director. The numbers are separated by ;

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	(00-48-22)-23-34-21; (00-48-22)-12-45-22		

**Field name:** Contact person

**Description:** The field contains the name of a person to be contacted (who can provide specific information on the company, its activities, products, etc.). The format is as follows

*N, FI., SI.*

where *N* is a family name, *FI* - initial of the first name and *SI* - second initial, if any.

<b>Associated table(s):</b>	None		
<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Rad an Tu Lee, K.,L.		



**Field name:** Title of contact person

**Description:** The field contains the post name of the contact person.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Senior Industrial Adviser

**Field name:** Phone of the contact person

**Description:** The field contains the phone number(s) of the contact person. The numbers are separated by ;

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** (00-48-22)-23-34-21; (00-48-22)-12-45-22

**Field name:** Role of company

**Description:** The field contains one or more terms specifying the role of the company. The only allowed terms come from a look-up table.

**Associated table(s):** table 2

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** technology owner%technology distributor

**Field name:** Other roles

**Description:** The field contains other terms characterizing the role of the company. These terms have to be different from the terms given in the previous field and they can be either picked up from the so-called "negative" (or complementary) table or provided by a person who fills out the worksheet.

**Associated table(s):** table 2, negative

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Independent research organization

**Field name:** Remarks

**Description:** The field contains free text containing additional information on the company, its staff, activities, etc.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** The company has been established in 1982.

## TECHNOLOGY OFFERED

**Field name:** Technology title

**Description:** The field contains the technology title as it is offered. It should be as much informative and based on standard terminology as possible. It is recommended that the title be rather short.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** Establishment of multi-user market information systems.

**Field name:** Description of technology

**Description:** The field contains a concise description of the technology in the form of a free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Object-oriented CASE approach based on the C++ programming environment for designing and implementing market information systems. Systems for small and medium size organizations can be quickly (1-4 months) set up.

**Field name:** Main use of technology

**Description:** The field contains major applications of the technology, in the form of a free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Establishment of user-friendly market and market related databases for storing information, multi-aspect retrieval, decision making support, generating reports of various profiles, etc.

**Field name:** Status of development

**Description:** The field contains the technology development status which is picked up from a look-up table.

**Associated table(s):** table 3

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** commercialized

**Field name:** Main advantages

**Description:** The field contains a list of main advantages of the technology picked up from a look-up table.

**Associated table(s):** table 4

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** low cost%low energy consumption

**Field name:** Other advantages

**Description:** The field contains other advantages of the technology, however different from those given in the previous field. The advantages can be picked up from a "negative" table or provided the person who fills out the worksheet.

**Associated table(s):** table 4, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** efficient object code%unlimited number of end users

**Field name:** Product name

**Description:** The field contains the name of the product that is the output of the technology.

**Associated table(s):** the table is created and updated by the system automatically, just after entering the product name. The person who fills out the worksheet can pick up one of the names from the table or to provide a new one.

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** database management system

**Field name:** Standard capacity

**Description:** The field contains the range (from - to) of the production per year, in the form of free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** 10 - 20 kG

**Field name:** By products

**Description:** The field contains the names of by products related to the technology.

**Associated table(s):** the same table as for the field *Product name*.

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** sorting procedures%retrieval routines

**Field name:** Raw materials

**Description:** The field contains the names of raw materials used to obtain the product by means of the technology.

**Associated table(s):** none

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** sand&water

**Field name:** Investment cost

**Description:** The field contains the technology investment cost, preferably in USD.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** USD 32,000

**Field name:** Type of licence

**Description:** The field contains the licence type of the technology. It is selected from the look-up table. For the *Joint Venture*, there is an additional field belonging to the *Type of license* section.

**Associated table(s):** table 5

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** limited

**Field name:** Other types

**Description:** The field contains other types of licence different from the types given in the previous field. They are picked up from a "negative" table or provided by a person who fills out the worksheet.

**Associated table(s):** table 5, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** unlimited within the country

**Field name:** Reference company name & country

**Description:** The field contains the name of the company that can offer the references concerned with the technology (where the technology has already been implemented) and the name of the country in which the company is placed. The country name is given between parentheses.

**Associated table(s):** none

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Food Processing Institute (Gabon)%  
Food Research Institute (Egypt)

**Field name:** List of countries not available

**Description:** The field contains a list of the countries where the technology cannot be offered ("stop list"). The countries are picked up from table 1.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** SUD%SUR

**Field name:** Patent

**Description:** The field contains binary information whether there are patents related to the technology or not.

**Associated table(s):** table containing 2 entries: Yes, No

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	Yes		

**Field name:** Remarks

**Description:** The field contains additional remarks, e.g. bibliographic note.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** The description of the technology has been published in *Journal of ACM*, vol.33, no. 4, 1990, pp.21-29.

**Field name:** Semi-NACE classification

**Description:** The field contains classification codes which are a part of the NACE classification. The terms are picked up from a look-up table.

**Associated table(s):** table 6

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No
<b>Example:</b>	321X423		



**Field name:** Descriptors

**Description:** The field contains the descriptors from a dictionary attached for the system. The terms are selected from a look-up table.

**Associated table(s):** table 7

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** Information systems%databases

**Field name:** Proposed descriptors

**Description:** The field contains the terms given by the person who input the data. These terms must be different from the terms specified in the previous field. They can be picked up from a "negative" table 7 or generated by the person who fills out the worksheet.

**Associated table(s):** table 7, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** semantic model%Codd's model

**Field name:** Log

**Description:** The field contains a free text that is a collection of remarks concerned with the technology. This field does not appear on a paper TSDB worksheet.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Problems with contacting the company in question were reported by the interested users.

## REQUEST FOR TECHNOLOGY

**Field name:** Technology title

**Description:** The field contains the technology title as it is requested. It should be as much informative and based on standard terminology as possible. It is recommended that the title be rather short. As an auxiliary tool a look-up table can be used to formulate the technology title.

**Associated table(s):** table which was created from the technology offers.

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** Establishment of a multi-user business information system.

**Field name:** Description of technology

**Description:** The field contains a concise description of the technology in the form of a free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Object-oriented CASE approach based on the C++ programming environment for designing and implementing business information systems. Systems for small and medium size organizations, that can be set up within 4-6 months.

**Field name:** Main use of technology

**Description:** The field contains major applications of the technology, in the form of a free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Establishment of user-friendly market and market related databases for storing information, multi-aspect retrieval, decision making support, generating reports of various profiles, etc.

**Field name:** Status of development

**Description:** The field contains the technology development status which is picked up from a table.

**Associated table(s):** table 3

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** commercialized

**Field name:** Special features requested

**Description:** The field contains a list of special features of the technology picked up from a table.

**Associated table(s):** table 4

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** low cost%low energy consumption

**Field name:** Other features

**Description:** The field contains other features of the technology, however different from those given in the previous field. The features can be picked up from a "negative" table or provided the person who fills out the worksheet.

**Associated table(s):** table 4, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** efficient object codeXunlimited number of end users

**Field name:** Product name

**Description:** The field contains the name of the product that is the output of the technology.

**Associated table(s):** the table is created and updated by the system automatically, just after entering the product name. The person who fills out the worksheet can pick up one of the names from the table or to provide a new one.

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** database management system

**Field name:** Standard capacity

**Description:** The field contains the range (from - to) of the production per year, in the form of free text.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** 10 - 20 kG

**Field name:** Preferred raw materials

**Description:** The field contains the names of raw materials used to obtain the product by means of the technology.

**Associated table(s):** none

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** milk%water%sugar

**Field name:** Approximate capital available

**Description:** The field contains the approximate capital that the demander of the technology can spent to get the technology requested.

**Associated table(s):** none

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** USD 45,500

**Field name:** Form of technology transfer

**Description:** The field contains the form of the technology transfer. It is selected from a look-up table. For the *Joint Venture*, there is a special field.

**Associated table(s):** table 8

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** licence%training

**Field name:** Other forms

**Description:** The field contains other forms of technology transfer different from the types given in the previous field. They are picked up from a "negative" table or provided by a person who fills out the worksheet.

**Associated table(s):** table 8, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	unlimited within the country		

**Field name:** Market type

**Description:** The field contains the type of the market which is either *export* or *domestic*. The type is picked up from a two element look-up table.

**Associated table(s):** table containing 2 entries: export, domestic

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	export		

**Field name:** Market regions

**Description:** The field contains a list of envisaged market regions where the products of the technology could be offered. The regions are picked up from table 9. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 9

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	AfricaXAsia		

**Field name:** Market - countries

**Description:** The field contains a list of countries where the products of the technology could be offered. The countries are picked up from table 1. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	ZAI%ZAM%URU		

**Field name:** Remarks

**Description:** The field contains additional remarks.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** The implementation of the technology requested is about to be supported by the government as a part of the National Industry Development Program 1990-94.

**Field name:** Semi-NACE classification

**Description:** The field contains classification codes which are a part of the NACE classification. The terms are picked up from a table.

**Associated table(s):** table 6

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No
<b>Example:</b>	321%423		

**Field name:** Descriptors

**Description:** The field contains the descriptors from a dictionary attached for the system. The terms are selected from a table.

**Associated table(s):** table 7

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	Yes	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** Information systems%databases

**Field name:** Proposed descriptors

**Description:** The field contains the terms given by the person who input the data. These terms must be different from the terms specified in the previous field. They can be picked up from a "negative" table 7 or generated by the person who fills out the worksheet.

**Associated table(s):** table 7, negative

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	Yes	<b>Automatic:</b>	No

**Example:** semantic model%Codd's model



## JOINT VENTURE OFFER

**Field name:** Partnership structure

**Description:** The field contains the form of joint venture partnership structure which is either *Joint stock company* or *limited*. The type is picked up from a two element look up table.

**Associated table(s):** the table contains 2 entries: Joint stock company, limited

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	limited		

**Field name:** Others

**Description:** The field contains other forms of the partnership structure. The items can be selected from a "negative" table or provided by a person who fills out the worksheet. Either the previous field or this one must be filled out. The two empty fields are not allowed.

**Associated table(s):** "negative" table to the table for the previous field

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>			

**Field name:** Percentage of participation

**Description:** The field contains the approximate percentage of general participation (in terms of money, consultation, equipment, training, etc.) of the offerer in the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	30 %		

**Field name: Cash minimum**

**Description:** The field contains the lower limit of the cash amount the offerer is ready to spend for the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** USD 250,000

**Field name: Cash maximum**

**Description:** The field contains the upper limit of the cash amount the offerer is ready to spend for the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** USD 350,000

**Field name: Market type**

**Description:** The field contains the type of the market which is either *export* or *domestic*. The type is picked up from a two element look up table.

**Associated table(s):** table containing 2 entries: export, domestic

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** export

**Field name:** Market regions

**Description:** The field contains a list of market regions where the technology is offered. The regions are picked up from table 9. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 9

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	AfricaXAsia		

**Field name:** Market - countries

**Description:** The field contains a list of countries where the technology is offered. The countries are picked up from table 1. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	ZAIXZAMXURU		

**Field name:** Remarks

**Description:** The field contains additional remarks.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>			

## JOINT VENTURE REQUEST (INVITATION)

**Field name:** Original capital

**Description:** The field contains the original capital of the inviting company.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** FF 33,000,000

**Field name:** Turnover

**Description:** The field contains the average annual turnover of the inviting company.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** FF 950,000

**Field name:** Annual R+D

**Description:** The field contains the average annual expenses on research and development, if any, of the inviting company.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** FF 125,000

**Field name:** Major investments/holdings

**Description:** The field contains the names and addresses of major investments and/or holding companies. The addresses are between parentheses. The items are separated by ;

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Energy Conservation Institute (Cairo, Zamelek); Institute for Electronics (Alexandria)

**Field name:** Partnership structure

**Description:** The field contains the form of joint venture partnership structure which is either *Joint stock company* or *limited*. The type is picked up from a two element look up table.

**Associated table(s):** the table contains 2 entries: Joint stock company, limited

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** limited

**Field name:** Others

**Description:** The field contains other forms of the partnership structure. The items can be selected from a "negative" table or provided by a person who fills out the worksheet. Either the previous field or this one must be filled out. The two empty fields are not allowed.

**Associated table(s):** "negative" table to the table for the previous field

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:**

**Field name:** Percentage of participation

**Description:** The field contains the approximate percentage of foreign general participation (in terms of money, consultation, equipment, training, etc.) in the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** 30 %

**Field name:** Cash minimum

**Description:** The field contains the lower limit of the cash amount the inviting company is ready to spend for the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** USD 250,000

**Field name:** Cash maximum

**Description:** The field contains the upper limit of the cash amount the inviting company is ready to spend for the technology implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** USD 350,000

**Field name:** Market type

**Description:** The field contains the type of the market which is either *export* or *domestic*. The type is picked up from a two element look up table.

**Associated table(s):** table containing 2 entries: export, domestic

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** export

**Field name:** Market regions

**Description:** The field contains a list of market regions where the products of the technology are about to be offered. The regions are picked up from table 9. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 9

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** Africa%Asia

**Field name:** Market - countries

**Description:** The field contains a list of countries where the products of the technology are about to be offered. The countries are picked up from table 1. This field is filled out if "Market type" = *export*.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** ZAI%ZAM%ZURU

**Field name:** Cash minimum

**Description:** The field contains the lower limit of the cash amount the inviting company is expecting from the offerer of the technology for its implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	USD 250,000		

**Field name:** Cash maximum

**Description:** The field contains the upper limit of the cash amount the inviting company is expecting from the offerer of the technology for its implementation.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	USD 350,000		

**Field name:** Complementary service

**Description:** The field contains a list of complementary services the company expects from the offerer. The items are picked up from a look up table.

**Associated table(s):** table 10

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No
<b>Example:</b>	equipment%staff training		



**Field name:** Others

**Description:** The field contains a list of other complementary services the company expects from the offerer. These services are different from those given in the previous field. The items are either picked up from a "negative" look-up table or added by the person who input the data.

**Associated table(s):** table 10, "negative"

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** financial support

**Field name:** Preferred countries

**Description:** The field contains a list of those countries which are preferred by the inviting company in order to get the technology. The countries are selected from a look-up table.

**Associated table(s):** table 1

<b>Type:</b>	X	<b>Repeatability:</b>	Yes
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:** OWE%USA

**Field name:** Remarks

**Description:** The field contains additional remarks.

**Associated table(s):** None

<b>Type:</b>	X	<b>Repeatability:</b>	No
<b>Obligatory:</b>	No	<b>Unique:</b>	No
<b>Retrievable:</b>	No	<b>Automatic:</b>	No

**Example:**

## Appendix 1

## TABLES

All the tables given below are temporary. The final tables are to be established after accepting the TSDB software prototype.

TABLE 1, Countries  
*a list attached*

TABLE 2, Role of Company  
*positive*

Contractor  
Engineering  
Technology distributor  
Technology owner

*negative*

Educational institution  
Gov. research organization  
Indep. research organization

TABLE 3, Status of Development

Commercialized  
Laboratory model  
In current production  
Patent or design only  
Pre-production units  
Working prototype

TABLE 4, Main Advantages  
to be set up by Mr. P. Pemberton

TABLE 5, Type of Licences Offered

Exclusive  
Limited  
Optional

TABLE 6, NACE 3 digit code

to be taken from Mr. C. Carrier

TABLE 7, Descriptors

to be taken from Mr. Scibor's work

TABLE 8, Form of technology transfer

Engineering

Know-how

Licence

Training

TABLE 9, Markets - Regions

Africa

Asia

Europe

Canada

Japan

Latin America

OECD

USA

TABLE 10, Complementary service

Buy-back arrangement

Engineering

Equipment

Foreign personnel

Know-how

Licence

Market

Raw material supply

Staff training

Appendix 2

TSDB SKELTON INPUT SHEETS

HEADER

Entered by \_\_\_\_\_ Modified by \_\_\_\_\_

Date (YY-MM-DD) \_\_\_\_\_

Valid over the period (in months) \_\_\_\_\_

Description Status      New       Modified       Deleted

Valid over the period (in months) \_\_\_\_\_

COMPANY

Company Id (if already assigned) \_\_\_\_\_ (+)

Company name \_\_\_\_\_ (+)

Acronyms \_\_\_\_\_

Street Addr. \_\_\_\_\_ POBox \_\_\_\_\_ *address section at least country is mandatory*

City \_\_\_\_\_ State/County \_\_\_\_\_

Country \_\_\_\_\_ *table 1 (+)*

Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Telex \_\_\_\_\_ Cable \_\_\_\_\_

e-mail carrier \_\_\_\_\_ user Id \_\_\_\_\_

Director Name \_\_\_\_\_

Tel \_\_\_\_\_ Ext \_\_\_\_\_

Contact Person \_\_\_\_\_ Title for mail \_\_\_\_\_

Tel \_\_\_\_\_ Ext \_\_\_\_\_

Role of Company \_\_\_\_\_ *table 2 (+)*

Other roles \_\_\_\_\_

Remarks \_\_\_\_\_

**TECHNOLOGY OFFERED**

Company Id (if already assigned) \_\_\_\_\_ (+)

Technology title \_\_\_\_\_ (+)

Description \_\_\_\_\_ (+)

\_\_\_\_\_ (+)

\_\_\_\_\_ (+)

Main uses \_\_\_\_\_ (+)

\_\_\_\_\_ (+)

\_\_\_\_\_ (+)

Status of Dev. \_\_\_\_\_ *table 3 (+)*

Main advantages \_\_\_\_\_ *table 4 (+)*  
 other advantages \_\_\_\_\_

Product name	Standard capacity (range per year)	By products	Raw materials
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Investment cost \_\_\_\_\_

Type of licence + \_\_\_\_\_ *table 5, (+)*

Joint Venture

Other types \_\_\_\_\_

References

Company	Country
_____	_____
_____	_____
_____	_____

List of countries not available \_\_\_\_\_ *table 1*

Patents (Y/N)

semi-NACE \_\_\_\_\_ *table 6 (+)*

Descriptors \_\_\_\_\_ *table 7 (+)*

Proposed descr. \_\_\_\_\_

Remarks \_\_\_\_\_

## REQUEST FOR TECHNOLOGY

Company Id (if already assigned) \_\_\_\_\_ (+)

Technology title \_\_\_\_\_ (+)

Description \_\_\_\_\_ (+)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Main uses \_\_\_\_\_ (+)

\_\_\_\_\_

\_\_\_\_\_

Status of Dev. \_\_\_\_\_ *table 3 (+)*

Special features \_\_\_\_\_ *table 4 (+)*  
 other features \_\_\_\_\_

Product name	Standard capacity (range per year)	Preferred Raw Materials
_____	_____	_____
_____	_____	_____
_____	_____	_____

Approx. capital avail. \_\_\_\_\_

Form of technology transfer \_\_\_\_\_ *table 8, (+)*

Joint Venture

Other forms \_\_\_\_\_

Market type      export       domestic

Market region \_\_\_\_\_ *table 9*

Markets - cntries \_\_\_\_\_ *table 1*

semi-NACE \_\_\_\_\_ *table 6 (+)*

Descriptors \_\_\_\_\_ *table 7 (+)*

Proposed descr. \_\_\_\_\_

Remarks \_\_\_\_\_

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## JOIN VENTURE OFFER

Partnership Strctr: Joint stock company  limited

Others \_\_\_\_\_

Percentage of part \_\_\_\_\_

Cash minimum \_\_\_\_\_

Cash max \_\_\_\_\_

Market type export  domestic

Market region \_\_\_\_\_ *table 9*

Markets - cntries \_\_\_\_\_ *table 1*

Remarks \_\_\_\_\_

## JOINT VENTURE REQUEST (INVITATION)

Original capital \_\_\_\_\_

Turnover \_\_\_\_\_

Annual R+D \_\_\_\_\_

Major invest./holding	Company name	address
	_____	_____
	_____	_____
	_____	_____

Partnership Strctr: Joint stock company  limited

Others \_\_\_\_\_

Percentage of part \_\_\_\_\_

### *Inviting company contribution section*

Cash minimum \_\_\_\_\_

Cash max \_\_\_\_\_

Market type export  domestic

Market region \_\_\_\_\_ *table 9*

Markets - cntries \_\_\_\_\_ *table 1*

### *Expected foreign contribution section*

Cash minimum \_\_\_\_\_

Cash max \_\_\_\_\_

Complement service \_\_\_\_\_ *table 10*

Other \_\_\_\_\_

Preferred cntrs \_\_\_\_\_ *table 1*

Remarks \_\_\_\_\_



## UN/UNDP COUNTRY CODES IN COUNTRY NAME SEQUENCE

<u>COUNTRY NAME</u>	<u>NO.</u> <u>CODE</u>	<u>ALPHA</u> <u>CODE</u>	<u>REG</u>	<u>LDC</u>	<u>UN</u> <u>LANG</u>
AF NAT CONGRESS	971	ANC	01		ENG
AFGHANISTAN	006	AFG	02	1	ENG
AFRICA REGION	900	RAF	01		ENG
ALBANIA	009	ALB	04		FRE
ALGERIA	012	ALG	10		FRE
ANDORRA	505	AND	04		ENG
ANGOLA	681	ANG	01		FRE
ANGUILLA	623	ANL	03		ENG
ANTIGUA AND BARBUDA	601	ANT	03		ENG
ANTILLES (FRENCH)	660	FAN	03		FYC
ANTILLES (NETHERLANDS)	672	NAN	03		ENG
ARAB IND DEV ORGANISATION	901	IDC	12		ENG
ARAB REGION	936	RAB	12		ENG
ARGENTINA	024	ARG	03		SPA
ARUBA	025	ARU	03		ENG
ASIA/PACIFIC REGION	920	RAS	02		ENG
AUSTRALIA	027	AUL	02		ENG
AUSTRIA	030	AUS	04		ENG
BAHAMAS	603	BHA	03		ENG
BAHRAIN	604	BAH	11		ENG
BANGLADESH	507	BGD	02	1	ENG
BARBADOS	042	BAR	03		ENG
BELGIUM	048	BEL	04		FRE
BELIZE	611	BZE	03		ENG
BENIN	117	BEN	01	1	FRE
BERMUDA	605	BER	03		ENG
BHUTAN	049	BHU	02	1	ENG
BOLIVIA	051	BOL	03		SPA
BOTSWANA	052	BOT	01	1	ENG
BRAZIL	054	BRA	03		ENG
BRUNEI DARUSSALAM	602	BRU	02		ENG
BULGARIA	057	BUL	04		ENG
BURKINA FASO	459	BKF	01	1	ENG
BURUNDI	061	BDI	01	1	FRE
BYELORUSSIAN SSR	063	BYE	04		ENG
CAMEROON	069	CMR	01		FRE
CANADA	072	CAN	03		ENG
CAPE VERDE	682	CVI	01	1	FRE
CARIBBEAN REGION	899	CAR	03		ENG
CAYMAN ISLANDS	615	CAY	03		ENG
CENTRAL AFRICAN REPUBLIC	075	CAF	01	1	FRE
CENTRAL AMERICA REGION	912	CAM	03		ENG
CHAD	081	CHD	01	1	FRE
CHILE	084	CHI	03		SPA
CHINA	086	CPR	02		ENG
COLOMBIA	093	COL	03		SPA
COMOROS	662	COM	01	1	FRE
CONGO	338	PRC	01		FRE
COOK ISLANDS	679	CKI	02		ENG

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	<u>CODE</u>	<u>CODE</u>			<u>LANG</u>
COSTA RICA	102	COS	03		SPA
COTE D'IVOIRE	225	IVC	01		FRE
CUBA	105	CUB	03		SPA
CYPRUS	111	CYP	04		ENG
CZECH + SLOVAK FED REP	114	CZE	04		ENG
DEM PEOPLE'S REP OF KOREA	515	DRK	02		ENG
DEMOCRATIC KAMPUCHEA	066	KAM	02		FRE
DEMOCRATIC YEMEN	395	PDY	11	1	ENG
DENMARK	120	DEN	04		ENG
DJIBOUTI	669	DJI	10	1	FRE
DOMINICA	610	DMI	03		ENG
DOMINICAN REPUBLIC	126	DOM	03		SPA
EAST AFRICAN COMMUNITY	699	EAC	01		ENG
ECUADOR	135	ECU	03		SPA
EGYPT	450	EGY	10		ENG
EL SALVADOR	138	ELS	03		SPA
EQUATORIAL GUINEA	139	EQG	01	1	SPA
ETHIOPIA	141	ETH	01	1	ENG
EUROPE REGION	930	RER	04		ENG
FED STATES OF MICRONESIA	693	MIC	02		ENG
FIJI	143	FIJ	02		ENG
FINLAND	144	FIN	04		ENG
FRANCE	147	FRA	04		FRE
GABON	153	GAB	01		FRE
GAMBIA	156	GAM	01	1	ENG
GERMANY	530	GDR	04		ENG
GERMANY	525	GER	04		ENG
GHANA	162	GHA	01		ENG
GLOBAL	950	GLO	05		ENG
GLOBAL(AFRICA)	951	GAF	05		ENG
GLOBAL(ARAB)	956	GAR	05		ENG
GLOBAL(ASIA + PACIFIC)	952	GAS	05		ENG
GLOBAL(EUROPE)	953	GEM	05		ENG
GLOBAL(LATIN AMERICA)	954	GLA	05		ENG
GREECE	165	GRE	04		ENG
GRENADA	616	GRN	03		ENG
GUADELOUPE	666	GJD	03		ENG
GUATEMALA	168	GUA	03		SPA
GUIANA (FRENCH)	665	FGU	03		ENG
GUINEA	177	GUI	01	1	FRE
GUINEA-BISSAU	685	GBS	01	1	FRE
GUYANA	180	GUY	03		ENG
HAITI	183	HAI	03	1	FRE
HOLY SEE	535	HLS	04		FRE
HONDURAS	186	HON	03		SPA
HUNGARY	195	HUN	04		ENG
ICELAND	198	ICE	04		ENG
INDIA	204	IND	02		ENG
INDONESIA	207	INS	02		ENG

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INTERREGIONAL	940	INT	05		ENG
INTERREGIONAL (AFRICA)	941	IAF	01		ENG
INTERREGIONAL (ARAB)	946	IAB	12		ENG
INTERREGIONAL (ASIA+PACIF)	942	IAS	02		ENG
INTERREGIONAL (EUROPE)	943	IEM	04		ENG
INTERREGIONAL (LATIN AMER)	944	ILA	03		ENG
IRAN, ISLAMIC REPUBLIC OF	210	IRA	02		ENG
IRAQ	213	IRQ	11		ENG
IRELAND	216	IRE	04		ENG
ISRAEL	219	ISR	04		ENG
ITALY	222	ITA	04		FRE
JAMAICA	228	JAM	03		ENG
JAPAN	231	JPN	02		ENG
JORDAN	234	JOR	11		ENG
KENYA	240	KEN	01		ENG
KIRIBATI	617	KIR	02	1	ENG
KUWAIT	243	KUW	11		ENG
LAO PEOPLE'S DEM REPUBLIC	246	LAO	02	1	ENG
LATIN AMERICA REGION	910	RLA	03		ENG
LEBANON	249	LEB	11		FRE
LESOTHO	252	LES	01	1	ENG
LIBERIA	255	LIR	01	1	ENG
LIBYAN ARAB JAMAHIRIYA	258	LIB	10		ENG
LIECHTENSTEIN	555	LIE	04		FRE
LUXEMBOURG	264	LUX	04		FRE
MACAO	688	MAC	02		ENG
MADAGASCAR	267	MAG	01		FRE
MALAWI	269	MLW	01	1	ENG
MALAYSIA	270	MAL	02		ENG
MALDIVES	274	MDV	02	1	ENG
MALI	276	MLI	01	1	ENG
MALTA	279	MAT	04		ENG
MARSHALL ISLANDS	692	MAS	02		ENG
MARTINIQUE	664	MAQ	03		ENG
MAURITANIA	282	MAU	01	1	ENG
MAURITIUS	283	MAR	01		ENG
MEXICO	285	MEX	03		SPA
MIDDLE EAST REGION	937	RMI	04		ENG
MONACO	565	MNC	04		FRE
MONGOLIA	288	MON	02		ENG
MONTSERRAT	620	MOT	03		ENG
MOROCCO	291	MOR	10		FRE
MOZAMBIQUE	689	MOZ	01	1	ENG
MYANMAR	060	MYA	02	1	ENG
NAMIBIA	698	NAM	01		ENG
NAT LIBERATION MOVEMENTS	888	NLM	01		ENG
NAURU	648	NAU	02		ENG
NEPAL	297	NEP	02	1	ENG
NETHERLANDS	300	NET	04		ENG

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	<u>CODE</u>	<u>CODE</u>			<u>LANG</u>
NEW CALEDONIA	667	NCA	02		ENG
NEW ZEALAND	309	NZE	02		ENG
NICARAGUA	312	NIC	03		SPA
NIGER	318	NER	01	1	FRE
NIGERIA	321	NIR	01		ENG
NIUE	680	NIU	02		ENG
NORWAY	324	NCR	04		ENG
OMAN	635	OMA	11		ENG
ORG COM AFRIC MALG MAURIC	902	OCA	01		ENG
PACIFIC MULTI ISLANDS	599	PMI	02		
PAKISTAN	330	PAK	02		ENG
PALESTINE	701	PAL	11		ENG
PAN AF. CONGRESS-AZANIA	973	PAC	01		ENG
PANAMA	333	PAN	03		SPA
PAPUA NEW GUINEA	549	PNG	02		ENG
PARAGUAY	336	PAR	03		SPA
PAT FRONT FOR ZIMBABWE	970	PAF	01		ENG
PERU	339	PER	03		SPA
PHILIPPINES	342	PHI	02		ENG
POLAND	345	POL	04		ENG
POLYNESIA (FRENCH)	668	FPL	02		ENG
PORTUGAL	348	POR	04		ENG
PORTUGUESE TERR (UNEPTSA)	684	POT	02		ENG
PUERTO RICO	695	PUE	03		ENG
QATAR	624	QAT	11		ENG
REPUBLIC OF KOREA	567	ROK	02		ENG
REPUBLIC OF YEMEN	492	YEM	11	1	ENG
REUNION	663	REU	01		ENG
ROMANIA	366	ROM	04		FRE
RWANDA	375	RWA	01	1	FRE
SAINT LUCIA	629	STL	03		ENG
SAMOA	590	SAM	02	1	ENG
SAMOA (USA)	696	AMS	02		ENG
SAN MARINO	570	SNM	04		ENG
SAO TOME AND PRINCIPE	683	STP	01	1	FRE
SAUDI ARABIA	378	SAU	11		ENG
SENEGAL	381	SEN	01		FRE
SEYCHELLES	628	SEY	01		ENG
SIERRA LEONE	390	SIL	01	1	ENG
SIKKIM	645	SIK	02		ENG
SINGAPORE	391	SIN	02		ENG
SO-WST.AF PEOP.OR-NAMIBIA	972	SWP	01		ENG
SOLOMON ISLANDS	631	SOI	02		ENG
SOMALIA	392	SOM	10	1	ENG
SOUTH AFRICA	393	SAF	01		ENG
SOUTH PACIFIC SUB-REGION	929	SPF	02		ENG
SPAIN	399	SPA	04		SPA
SRI LANKA	078	SRL	02		ENG
ST HELENA	625	STH	01		ENG

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ST KITTS AND NEVIS	627	STK	03		ENG
ST VINCENT+THE GRENADINES	630	STV	03		ENG
STATELESS	499	STA	00		ENG
SUDAN	402	SUD	10	1	ENG
SURINAME	678	SUR	03		ENG
SWAZILAND	403	SWA	01		ENG
SWEDEN	411	SWE	04		ENG
SWITZERLAND	575	SWI	04		FRE
SYRIAN ARAB REPUBLIC	414	SYR	11		ENG
TERRITORY OF HONG KONG	612	HOK	02		ENG
THAILAND	420	THA	02		ENG
TOGO	423	TOG	01	1	FRE
TOKELAU ISLANDS	656	TOK	02		ENG
TONGA	634	TON	02		ENG
TRINIDAD AND TOBAGO	429	TRI	03		ENG
TRUST TERR OF THE PACIFIC	694	TTP	02		ENG
TRUST TERR-REP OF PALAU	690	TTR	02		ENG
TUNISIA	432	TUN	10		FRE
TURKEY	435	TUR	04		ENG
TURKS AND CAICOS ISLANDS	636	TCI	03		ENG
TUVALU(FORMER ELLICE ISL)	618	TUV	02	1	ENG
UGANDA	438	UGA	01	1	ENG
UKRAINIAN SSR	441	UKR	04		ENG
UNDETERMINED	999	UND	00		ENG
UNITED ARAB EMIRATES	449	UAE	11		ENG
UNITED KINGDOM	453	UK	04		ENG
UNITED REP OF TANZANIA	455	URT	01	1	ENG
UNITED STATES OF AMERICA	456	USA	03		ENG
URUGUAY	462	URU	03		SPA
USSR	447	USR	04		ENG
VANUATU	655	VAN	02	1	ENG
VENEZUELA	471	VEN	03		SPA
VIET NAM	520	VIE	02		ENG
VIRGIN ISLANDS (UK)	640	BVI	03		ENG
VIRGIN ISLANDS (USA)	697	UVI	03		ENG
WALLIS AND FUTUNA ISLANDS	661	WFI	02		ENG
WEST IRIAN/NOW IRIAN JAYA	677	WIR	02		ENG
WESTERN SAHARA	691	SAH	01		ENG
YUGOSLAVIA	495	YUG	04		ENG
ZAIRE	099	ZAI	01		ENG
ZAMBIA	498	ZAM	01		ENG
ZIMBABWE	626	ZIM	01		ENG