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FINAL REPORT
ON
Design, Development and Publishing of e-Journal on
ICAMT / CMTI Website

CONTRACT NO. 2002/111

Between

THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION
(UNIDO)

And

THE CENTRAL MANUFACTURING TECHNOLOGY INSTITUTE
(CMTI)

UNIDO Project No.: SF/GLO/99/005

UNIDO Purchase Order No.: 16000097

Design, development and publication of monthly e-journal on the ICAMT/CMTI website

Introduction

Central Manufacturing Technology Institute (CMTI) is an R & D organization in the field of machine tools and manufacturing technology established at Bangalore by the Government of India.

The Technology Information Services division of CMTI provides various services to meet the information demands of the engineering industry. It has the basic infrastructure and expertise to bring out an electronic journal.

The International Centre for Advancement in Manufacturing Technology (ICAMT) has been established by the United Nations Industrial Development Organization in cooperation with the Government of India with a mission to bridge the technology gap by promoting technology as a means to industrial competitiveness in developing countries.

The third meeting of the ICAMT Advisory Committee held on 3rd April 2002 in Bangalore, India, discussed the need to publish an electronic journal that would cover the advances in manufacturing technology and focus on the developments in industry and technological skill upgrading. The committee advised the launch of such a publication in 2002 and suggested that a sample of the proposed e-journal be designed and submitted at the next meeting of the Committee for final consideration. This task was contracted to the CMTI. The Technology information Services Division of CMTI is the executor of the task. Accordingly one issue of the e-journal was designed and demonstrated to the advisory committee of ICAMT, which subsequently approved the contents of the journal. The e-journal with title '**Advancement of Manufacturing Technology**' is now being regularly published on the ICAMT website since May 2002.

The scope of the contracted services and the time schedule

The contractor will work under the supervision of the ICAMT Project Director and the UNIDO Programme Manager. In particular, they will be assigned to undertake the following activities:

No.	Activity	Schedule
1.	To sign the contract	April 2002
2.	To design the cover page, outline and contents of the e-journal, defining the sources of the information and obtain the copyright permissions for re-printing	April 2002
3.	To facilitate distribution of the e-journal by e-mail to all addresses in the ICAMT and CMTI databases as well as to those who had requested it.	On a monthly basis.

4.	To facilitate publishing 12 monthly issues of the e-journal on the ICAMT websites by ICAMT.	May 2002 – April 2003
5.	To generate data in-house and to collect data from periodicals, reports, proceedings and other sources of information; assess, select, edit and convert into user-friendly pages for insertion into e-journal by ICAMT.	May 2002 – April 2003
6.	To develop a questionnaire and distribute it among the readers with the request to provide their views, comments and inputs regarding any changes/improvements required.	On a regular basis.
7.	To review the design and contents of the e-journal with ICAMT on a monthly basis and introduce the changes taking into account the comments and inputs provided by readers.	On a regular basis.
8.	To submit an Interim Report covering the activities executed in the first six months of the contract .	December 2002
9	To prepare a Technical Report (5 copies) for submission to UNIDO.	April 2003

Regarding the accomplishment of the above tasks, it has been agreed between CMTI and ICAMT that CMTI will have the responsibility of collecting the data to cover the contents of the e-journal and provide it in HTML format to the ICAMT and the layout, porting on Internet and dispatch of the journal by e-mail to the proposed users will be carried out by the ICAMT

A Memorandum of Understanding to this effect was signed between the UNIDO and CMTI on 29.5.2002.

Publication of the first issue of the Journal:

The data for the First issue of the journal i.e., the MAY 2002 issue was sent to the Project Director, ICAMT on 29th April 2002 and after his review, the same was sent to the Delhi office of ICAMT on 3rd May 2002. The issue was ported on the internet during May 2002.

Contents of the E-journal

The main contents of the e-journal include:

1. **Technical articles:** The articles published in this section deal with various aspects of manufacturing technology. The authors of the papers are from CMTI as well as from other industrial, educational and R & D organizations. As such the articles provide an insight into the basics of the manufacturing technology, the on-going

research work and practical aspects that enable the industry to keep abreast with the latest developments and adopt the technology wherever it is relevant.

Internet is another source used for identifying the articles of interest to the reader community. An abstract is provided along with a link to the website of the original article to help the user get a quick access to the full text.

2. **Technology Trends:** The trends in various manufacturing technologies are summarized.

The relevant data is collected from various periodicals and newsletters, newspapers Internet, etc. The data thus collected is scrutinized and edited to suit the content of the e-journal. The source of the data is acknowledged wherever needed.

This feature enables the reader to be aware of the latest developments in their fields

3. **Technology resources:** This is a compilation of resources for particular technologies such as calibration, metrology, precision machining, etc., or details of specific laboratories with a hyperlink to their websites.

The data is collected from various periodicals and newsletters, newspapers, write-up from industries, Internet etc. The data thus collected is presented either in a list format with links to the websites or as description of the facilities.

This feature is helpful to the readers in identifying the facilities they would like to avail or in publicizing their own facilities

4. **Snapshots of technical articles:** Over 150 periodicals and various conference proceedings procured by the CMTI library are scanned through. The articles of relevance are identified and their bibliographical details with abstracts are published in this section. These abstracts are in turn classified under broad subject headings to enable users to browse through the subject categories in which they are particularly interested.

The abstracts help the readers to know the thought content of the articles published without going through the hard task of browsing through several periodicals. This feature also helps them keep abreast of the latest developments in their subject area. An archive of these abstracts is also included as parts of the journal in order to enable readers get a consolidated list of abstracts on the subject of their interest.

5. **News items:** This feature is a compilation of news related to happenings in the technology sector. It gives the reader an awareness of the events or developments in the field. The data for this section is compiled by the ICAMT.

6. **Calendar of events:** The calendar gives details about the events such as exhibitions, trade fairs and symposium in the fields of relevance to manufacturing technology, in various parts of the world.

Data sources for this feature include periodicals, newsletters, leaflets, advertisements, newspapers and Internet. The data collected in varying formats are put into a defined format, sorted by date and then submitted for publication in the e-journal.

It helps the user to be aware of such events and make use of them for promoting their products and technologies

7. **Patent information:** This feature is a compilation of abstracts of patents applied or granted. Each issue comprises of patent abstracts relevant to a particular subject. Efforts are made to cover the patents from all the countries in the world.

The patent databases available on the web are searched with specific keywords to compile the abstracts on the patents applied or granted in the world. The data thus collected is organized and formatted for user-friendly presentation. The patent abstracts are sorted by the country from which the patent is issued and the patent number. The data includes the details such as country code, patent number, date and title of the patent, applicant, inventor, and abstract. A list of the country codes and the respective countries is presented for reference.

The data for the other information about patents is compiled from the sources such as periodicals, newsletters, newspapers and Internet. This feature helps to update the knowledge of the reader regarding the patents in their field.

8. **Book reviews:** Reviews of books published or due to be published are presented. The data for this feature is collected from the reviews of books published in various periodicals, newspapers, book catalogues and Internet. The reviews are studied for their suitability for the readers of the e-journal and then selected for publication.

This feature enables the readers to get the knowledge about the books published in their subject area.

Web page design

The design of the layout of the journal on the web is carried out in the Delhi office of the ICAMT. The data compiled at CMTI is sent to the ICAMT office in the HTML format by grouping them in the respective feature headings. The data for particular issue is sent by the fourth week of the preceding month. Annexure-I gives the sample home page of the journal. Links are also provided to the CMTI web site in this homepage.

Publication of the Journal on the Web

Data for all the twelve issues of e-journal from May 2002 to April 2003 are sent to the ICAMT office and the issues are published in time on the web.

Distribution of the journal on the net

The e-mail version of the journal is sent to all the addresses in the database of ICAMT. The ICAMT website has about 27,053 hits during the period. 38% of these hits are for the e-journal. The average hits per day are about 872.

Feedback and updating

A questionnaire was designed and sent to ICAMT for obtaining the feedback from readers. The feedback received from the ICAMT and the actions taken against them are as follows:

Sl. No.	Feedback	Actions taken
1	Technical article	
	a. If the information is copied from any source, acknowledge the source.	a. The point is noted and the wherever needed, Acknowledgement is made in the further issues of the journal
	b. Some of the hyperlinks provided could not be connected	b. Care is taken to verify that all the Hyperlinks are operative before Submitting the data for publication
	c. Articles should have orientation towards the quality evaluation or any information that would help the production engineers.	c. Articles with more practical orientation towards production engineering are considered for publication.
2.	Book Review	
	a. Addition of value from CMTI is preferred instead of reproducing the information from the web site	The further issues of the journal have the brief synopsis of the books added by CMTI followed by hyperlinks to the websites.
3.	Calendar of events	
	a. Calendar could be details with 5/6 sentences giving links to original sites rather than the whole web page occupying more space in the journal.	The calendar compiled includes the event name, venue, date and contact details including links to original sites.
4.	Snapshots of technical articles	
	a. The content should be at least 1mb size.	The content is increased to about 10 mb. Photographs are included in relevant places.
5	Technology Resources:	
	a. Do not restrict the technology resource to a single centre. Try to cover all the resources.	The point is noted and list of several resource centers for specific technologies are included.

Submission of Reports

An interim report (5 copies) covering the activities executed in the first six months of the contract was submitted on 5th December 2002. The final report on completion of the project is being submitted in April 2003.

Conclusion

The e-journal has been published as per the proposed schedule adhering to the terms of Contract. The scheduled tasks have been fulfilled successfully meeting all the requirements of the Contract. Continuous improvements are made in the contents of the journal using the feedbacks received and through the in-house efforts as well.