



The Karnataka State Forest Industries Corporation Ltd.  
(A GOVERNMENT OF KARNATAKA UNDERTAKING)  
REGISTERED OFFICE:

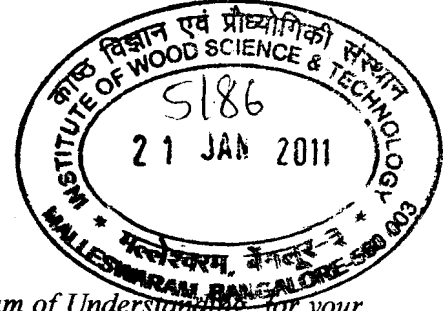


"VANA VIKAS", 3<sup>rd</sup> FLOOR, 18<sup>th</sup> CROSS  
MALLESWARAM, BANGALORE - 560 003  
REGD. No 2314  
Phone : 23345476, 23346 193-94, 23360557  
Tele Fax : 941-080-  
E-mail : md\_ksfic@rediffmail.com

No.KSFIC/TEC-1/IWST-MoU/2010-11

19.01.2011

The Director,  
Indian Wood Science Technology,  
18<sup>th</sup> Cross, Malleshwaram,  
Bangalore.



Sir,

Sub: Memorandum of Understanding - reg.

1. Please find herein enclosed a copy of the duly signed Memorandum of Understanding for your reference and further needful action.
2. As per our discussion, you are requested to initiate necessary action on the following.

- a. The main objective of KSFIC Ltd., being processing of wood and manufacture of furniture and wood based construction material, the Block Boards manufactured by KSFIC not fetching good market, IWST may be approached for developing and applying its research to improve the Block Boards in quality and marketing.
- b. Use of Acacia auriculiformis and other alternate woods in place of teak for manufacture of Door frames, and other furniture. The entire consultancy can be done by IWST in transferring the knowledge, particularly for finger jointing of Acacia / Teak and Rosewood Furniture / Doors.
- c. The IWST may guide in up grading technology for teak / rubber wood furniture as above.
- d. The Solar Seasoning Kilns available in KSFIC Timber yard Layout is of lower capacity. Because of this seasoning schedule has become a problem. The wood seasoning and preservation technologies has to be improved, which can be done with the help of IWST.
- e. In this connection, the General Managers are nominated as nodal officers for following up above milestones as well as other subjects covered in the said MoU.

We have already written to our General Manager (N) & (S), besides to the Regional Manager, Timberyard Layout to tie up with your concerned resource persons to fulfill above and other aspects of MoU. It is requested to initiate necessary action in this regard early.

Thanking you,

Yours faithfully  
For KSFIC Limited

MANAGING DIRECTOR

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GCP  
21/1

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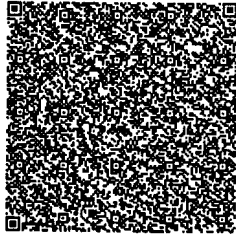
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# INDIA NON JUDICIAL Government of Karnataka

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For Stamping  
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 Assistant Manager  
 Mallechwaram, Bangalore - 560 055  
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### MEMORANDUM OF UNDERSTANDING

This memorandum of understanding is made on this 23<sup>rd</sup> day of December 2010 at Bangalore.

BETWEEN

Karnataka State Forest Industries Corporation Limited, Vanavikas, 18<sup>th</sup> Cross, Malleshwaram, Bangalore through its Managing Director, presently Mr. A.K. Varma, IFS (Hence after referred to as KSFIC) the one part.

AND

Institute of Wood Science and Technology (hence after referred to as IWST), 18<sup>th</sup> Cross, Malleshwaram, Bangalore, an Institute under ICFRE Dehra Dun through its Director, presently Mr. P. C. Joshi, IFS the other part.

#### Statutory Alert:

1. The authenticity of the Stamp Certificate can be verified at Authorised Collection Centers (ACCs), SHCIL Offices and Sub-registrar Offices (SROs).
2. The Contact Details of ACCs, SHCIL Offices and SROs are available on the Web site "www.shcilestamp.com"

The expressions of KSFIC and IWST shall however mean and include the Institutions/Organizations, their successors, appointees, assignees etc.

WHEREAS KSFIC is a Government of Karnataka undertaking. The main objectives of KSFIC include

- To harvest forest produce for supply to pulpwood and rayon industries vis-à-vis creating employment potential;
- Processing of wood and manufacture of furniture and wood based construction material.
- To eliminate forest contractors in the whole chain of operations including logging for timber and processing and marketing of forest produce

WHEREAS IWST is one of the Institutes of Indian Council of Forestry Research & Education (an autonomous body under Ministry of Environment and Forests, Government of India, New Delhi). The main objectives of the Institute are:

- To conduct research on wood science and technology at national level and focuses its research activities to important forestry research needs of the States of Karnataka, Andhra Pradesh and Goa at regional level.
- To attain excellence in forestry and wood science research for generation of desired resource values, uses, products and services in a way that sustains diversity and productivity in an eco-friendly regime.

Recognizing the importance of scientific cooperation and the mutual benefit to be derived from liberal collaboration, the two institutions believe that a formal memorandum will provide the structure and basis for implementing the expanding joint research and for developing and applying this research to achieve innovative, cost-effective and demonstrable results in setting forth a framework for initiating, evolving development of standards, product and process standards, standard operation procedure in producing wood products. In a nutshell, the following broad areas of collaboration are identified

- To promote growth and development of wood science
- To promote uses of alternate woods
- To promote wood seasoning and preservation technologies
- To impart advanced training in wood science including wood working machineries.

The parties are desirous of working and co-operating with one another and joining their respective expertise, knowledge and resources in forging a strategic alliance to develop an exchange program in the fields of wood science and technology.

Now therefore, the above two parties hereby agree to establish and conduct mutually agreed upon co-operative and collaborative projects, programs and/or activities, in the area of wood science.

## **Article-I Areas of Co-operation and Collaboration:**

The parties agree to establish and conduct research within the area of wood science projects/programs and activities. Specific details of each shall be mutually developed, discussed and agreed upon in writing by both the parties prior to the initiation of the activity. Any additional activity shall form appendices to this Memorandum of understanding. Potential areas of co-operation/collaboration include

- **Training/demo/extension**

One of the strongest areas of IWST is its extension Activities. The Institute can provide training in various areas such as identification of wood, processing of timber etc. The technologies/knowledge developed by IWST will be demonstrated to KSFIC.

- **Use of alternative woods such as Acacia, Babul woods/Rubber wood including transfer of knowledge**

Many plantation grown and lesser known timber species have been studied for their various properties and processing to find the value addition. The same knowledge will be shared with KSFIC.

- **Solar Kilns**

Forest Research Institute (FRI), Dehra Dun, one of the constituent institutes of Indian Council of Forestry Research and Education (ICFRE) has the required expertise in the matter of Solar Kiln. Any issues regarding solar kiln has to be dealt by both parties through FRI. However, other drying related issues will be dealt by IWST.

- **Research**

IWST and KSFIC will focus on multi-disciplinary time bound collaborative research projects with defined deliverables. Specific details of any co-operative/collaborative research will be worked out.

- **Marketing**

IWST can contribute in standardization, certification and quality assessment issues whereas marketing can be the dealt by KSFIC.

- **New wood working machines**

IWST has state of the art wood working training centre in collaboration with Italian Trade Commission. The knowledge on advanced woodworking machines available at IWST and training on these machines will be provided.

- **Use of improved seedlings for plantations species like Bamboo**

The Institute has developed macro and micro propagation techniques of important species including bamboo. The technology has great potential in enhancing the productivity and meeting the industry requirement. The same will be demonstrated to KSFIC and required training will be imparted.

- **Collaboration with other types of agencies having similar business like Karnataka State Handicrafts Development Corporation (KSHDC), Handicrafts Development Commissioner etc**

The Institute is already in continuous touch with KSHDC and office of the Handicrafts Development Commissioner for future collaboration. KSFIC will also be involved for larger benefit of wood users.

**Article-II Implementation of Collaborative/Co-operative Projects, Programs and Activities:**

Specific details of any co-operative/collaborative activities to be conducted will be described and agreed upon in writing. These details will include the specific activities to be conducted, responsibilities of the co-operating parties; personnel who will participate; source, allocation and amount of resources, schedules, implementation procedures and other details.

**Article-III Support and Resources:**

The amount and source of resources and other requirements for co-operative activities will be intimated as and when required. The Parties may jointly or individually seek funding and other support from third parties for the conduct of collaborative projects, programs and/or activities. This MOU does not obligate the parties to provide funds and /or resources from their own or other sources unless agreed in writing.

**Article-IV Duration, Termination and Modification of MOU:**

This MOU shall take effect when signed by both the parties and will remain in effect for an initial period of five years and may be renewed by mutual agreement in writing for an additional period. This MOU may be terminated by either party with a six months written notice of intent to terminate. Any modification shall require a written approval of either the parties or their designees.

**Article-V Protection of Intellectual Property Rights:**

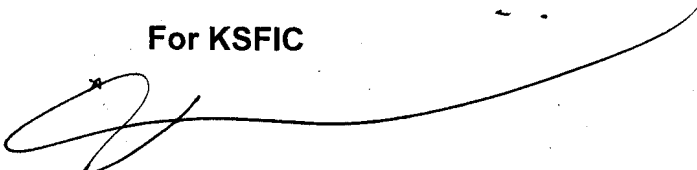
- It is recognized by both the parties that the allocation of intellectual property rights will occur on the basis of a research and technology management plan developed for each project by the project proponent.
- Research outcome will be jointly patented and outcome of the patent will be jointly shared in mutually agreed proportions for each outcome.
- It is agreed by the parties to undertake not to disclose, divulge, part with, copy in any form for the period as specified in this MOU/agreement any scientific research document, planning, execution, and appropriate financial, legal documents involved in this MOU in various projects. All personnel involved in collaborative projects from IWST and KSFIC are subject to this non disclosure clause for the period of this MOU.
- The only exception being research papers for publication, where both parties agree to publish the results jointly in scientific journals.

**Article-VI Arbitration:**

That any difference or divergence derived from the interpretation or application of the present instrument shall be resolved by the parties amicably. However, in case the dispute remains unresolved, it shall be referred to an Arbitrator, to be appointed by mutual consent of both the parties subject to Bangalore Jurisdiction. The decision of the Arbitrator shall be final binding upon both the parties concerned.

IN WITNESS WHEREOF, A.K. Varma, IFS, Managing Director, Karnataka State Forest Industries Corporation Ltd. (KSFIC) and S.C Joshi, IFS, Director, Institute of Wood Science and Technology (IWST), have here into respectively signed the agreement on the day and the year first above written.

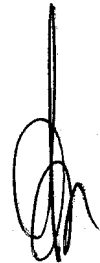
**For KSFIC**



A.K. Varma, IFS  
Managing Director  
Karnataka State Forest Industries  
Corporation Ltd.  
Vanavikas, 18<sup>th</sup> Cross, Malleswaram  
Bangalore-560 003

**Seal**

**For IWST**



S.C. Joshi, IFS  
Director  
Institute of Wood Science and Technology  
18<sup>th</sup> Cross, Malleswaram  
Bangalore-560 003

**Seal**

**Witnesses**

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**Witnesses**

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