

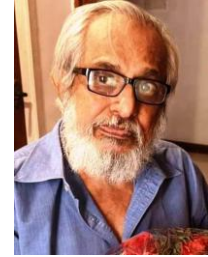


ALIGNMENT TECHNOLOGIES

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K.P. JAYABHANU - A BRIEF PROFILE

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 SHANTHI COLONY, ANNA NAGAR
 CHENNAI – 600 040, INDIA
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 Email: kpjayabhanu1942@gmail.com



Date of Birth	:	31.01.1942
Place of Birth	:	Mangalore, Karnataka, India
Sex	:	Male
Marital Status	:	Married
Education	:	(a) Brennen College, Tellicherry (b) Victoria College, Palghat (c) College of Engineering, Trivandrum Professional training at various institutions in India and abroad
Professional Qualification	:	Degree in Mechanical Engineering Training in Wood Engineering at Roshenheim, Germany Training from FTP International, National Board of Education, Finland.
Work Experience	:	Over 48 years in Construction and Wood based Industry in India and Abroad. Experience covers Plywood, Particleboard, MDF and Solidwood Processing (Rubber wood, Coconut wood and other plantation species). Secondary Processing of wood and panels to produce furniture, modular kitchen, parquet flooring and selected builders' ware. Experience in setting up concrete pre-fabricated Housing System in Indonesia and India.
Regions worked	:	India, Indonesia, Lao PDR, China, Myanmar, Philippines, African Countries and Europe.
Present Positions	:	(a) CHAIRMAN, Plant Wood Interiors Pvt Ltd., Tellicherry, Kerala, India (b) ADVISOR to National Group of Companies, Kolkatta (c) PARTNER, Alignment Technologies, Chennai, India
Employment	:	❖ Worked in India and abroad in Senior level capacities for over 20 years. Served as a Member of the Board of Directors of Andamans Timber Industries, as Technical Director, from 1995 to 2001. ❖ Worked in Indonesia during the period 1977 to 1982 as General Manager of an Indonesian Company involved in pre-fabricated housing, based in Jakarta, Indonesia



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PROFESSIONAL HIGH-LIGHTS

A consultant with considerable international experience in the area of wood processing and pre-fabricated housing. A mechanical engineer with specialization in wood processing, who has undergone various training in all aspects of management in the concerned sector.

Team leader for some important international expert missions of World Bank, United Nations and Asian Development Bank. Few of the important assignments are as follows:

- ❖ Team Leader for an Asian Development Bank Mission for reorganizing the wood based industry in Laos People's Democratic Republic during 1980.
- ❖ Senior Consultant for wood based panel industries sector in a FAO, World Bank Mission for the development of strategies for wood industries for Indonesian Government.
- ❖ Expert for a World Bank Mission for the development of rubber and rubber wood industries in India, advising the Rubber Board, Government of India.
- ❖ Established large scale usage of rubber wood, coconut wood and selected plantation timber, in India by installing a state of the art technology plantation wood processing unit in Kerala. Developed successfully engineered wood parquet flooring from rubber wood during 1990s.
- ❖ As an Expert of ITTO, Japan provided advice to Central Research Institute for Wood Industry, China.
- ❖ As an International Expert on behalf of ITTO, Japan, worked with Wood Research Institute and the Forest Ministry in Myanmar to promote lesser known species of Myanmar in the International market, generating additional revenue generation for the country. Suggested rationalisation of timber usage in the traditional construction methods practiced in Myanmar. Introduced the concept of engineered wood products in furniture production and construction.
- ❖ Preliminary work on development of engineered wood products and wooden parquet flooring was carried out for the Building Product Division of Larsen & Toubro Ltd.
- ❖ Providing expertise to a Government of agency (NMBA) for the development of bamboo processing in India.
- ❖ Developed a concrete pre-fabricated large panel housing system in Indonesia. Large numbers of houses were built in Indonesia and Malaysia employing the process. The system was the first of its kind emerging from the developing world.
- ❖ As Technical Expert, associated with the German company, DORA Maschinenbau und Vertriebs GmbH to develop a concrete pre-fabricated housing system for low and medium cost housing in developing countries.
- ❖ Publications on wood processing, technology and industrialized building systems in various magazines and journals.
- ❖ Guest faculty in various institutions in India and abroad.

Award

Recipient of Rotary International Vocational Service Award for pioneering the industrialization of a backward, labour militant area in Kerala.



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DEVELOPMENT OF PROCESS, PRODUCTS

1. HOLLOW BEAM



Solid wood hollow beam of different cross sections (subject to the dimensions of the Composer) could be produced in lengths upto 4 Mtrs. The product may find application in interiors as well as for exterior structures. The design and cross section of the product could be varied according to the applications. This component could be employed as columns also. In combination with metal sections the hollow beam could be used as a load bearing component.

The web of the beam could be engineered either as a finger jointed and laminated timber or solid planks, finger jointed. Various timber species could be utilized for the production of hollow beams for different end uses. The items could be mass produced as long hollow beams and the same could be cut to the required length for the production of various components. The product may find application in house construction also.

2. PRE-FINISHED SOLID WOOD WALL PANEL



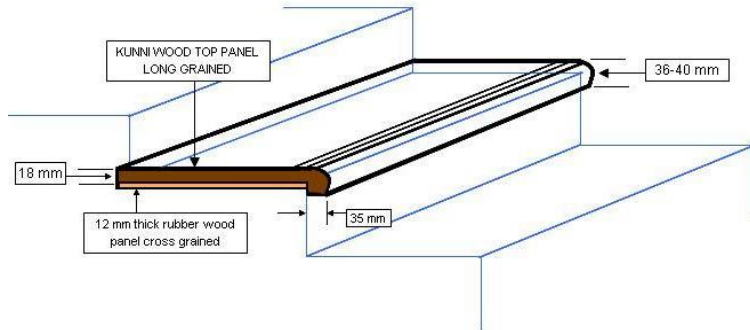
Prefabricated solid wood walls could be manufactured as per customer requirement. The width could be achieved by modular co-ordination with standardized modules or a combination of standard modules and customized width modules. The height could be upto 4 mtrs (subject to the fabrication length possible in the Composer). The wall unit is provided with a 'T' frame all around which could be fixed to the base as well as edges. The wall could be designed as a primary element (light load bearing) or as secondary element, which is non-load bearing component.

The structure of wall incorporates a 'T' frame as laminated beams and sections from durable timber species like Rubber wood, Teak or other traditional timbers. The insert panels and louvers could be of Rubber wood or teak timber or even aluminum sections. The finish and the colour could be customized to suit the ambiance of the structure. The lower weight of the structure will be an added attraction.

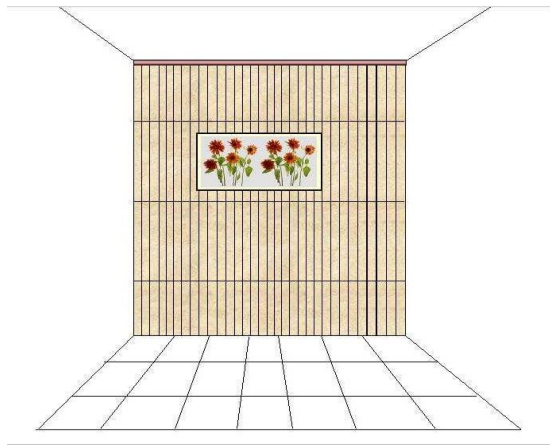
The product may find application in structures like floating restaurants, resorts and even in housing in places like Japan.

3. STAIRCASE STEPS AND COMPONENTS

Solid wood staircase steps with detailed fixing arrangements was developed, produced and installed. Other staircase components like balusters, handrails etc. are also produced in commercial quantities. Selected species of high durability were utilized for installation of wooden steps and landing panels for a considerable number of years. Solid wood with high wear resistance is utilized as steps even in public places and high traffic areas. Conventional wooden steps from solid wood have certain structural limitations especially when the dimensions are large.



4. WALL PANELING



Pre-finished solid wood wall paneling components are very well established in the interior decoration.

A wide range of wood panel in traditional species and other plantation timber is being utilized.

The dimension extension was achieved by finger jointing and edge gluing process, thus providing flexibility for design.

5. PARQUET FLOORING AND WOODEN DECKS

Various species of timber is being utilized to produce pre-finished parquet and deck. A wide range of flooring options could be developed.





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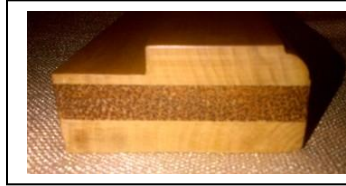
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6. LAMINATED DOOR FRAMES AND DOORS

Stress relieved multilayer prefinished timber frame sections could be produced in sizes required by the end-user. The frames are moulded or surface carved to suit the end-user requirement.



LAMINATED FRAMES



7. COCONUT WOOD ROOF SHINGLES



Pre-finished, ready-to-fix coconut wood roof shingles.

8. MODULAR KITCHEN AND WARDROBES

Modular kitchen systems utilizing solid wood, composite wood panels and other board products incorporating plastic and stainless steel were designed and produced on commercial scale. The concept is very well established and considerable numbers of companies are operating in this field. System for pre-finished wardrobe units was also established and such an activity led to total solid wood interior solutions.



KITCHENS AND WARDROBES





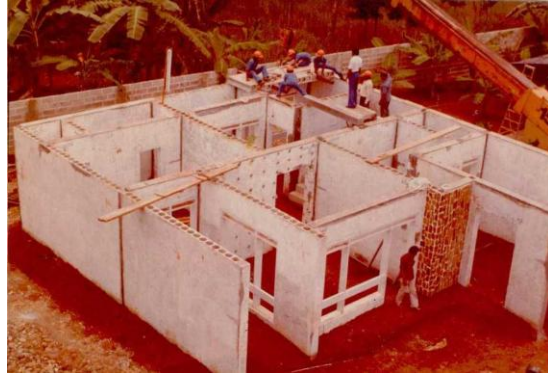
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9. INDUSTRIALIZED HOUSING SYSTEM

A concrete hollow-core panel housing system was developed in Indonesia while the consultant was heading one of the Indonesian companies based in Jakarta.

PRE-FABRICATED CONCRETE HOUSES



PROTOTYPE PREFAB HOUSE - INDONESIA

Under the guidance of the consultant, a factory to produce pre-finished concrete components was set-up in the outskirts of Jakarta, Indonesia and considerable numbers of houses were built in various parts of Indonesia.

Large volumes could be produced by improving the manufacturing facilities and the system developed could be utilized for production of houses incorporating wood components, bamboo panels etc.



DEVELOPMENT AT CHENNAI



PROTOTYPE-CHENNAI

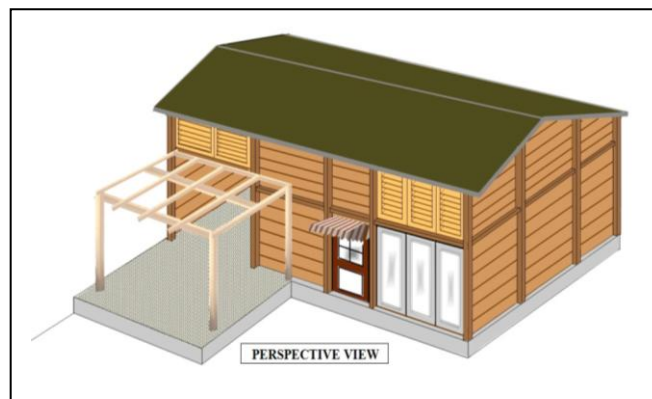
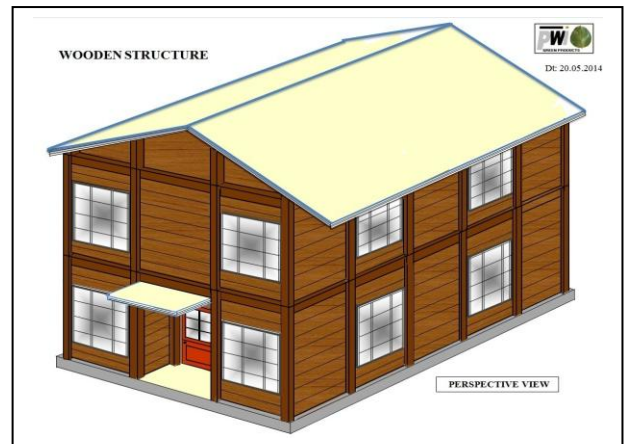
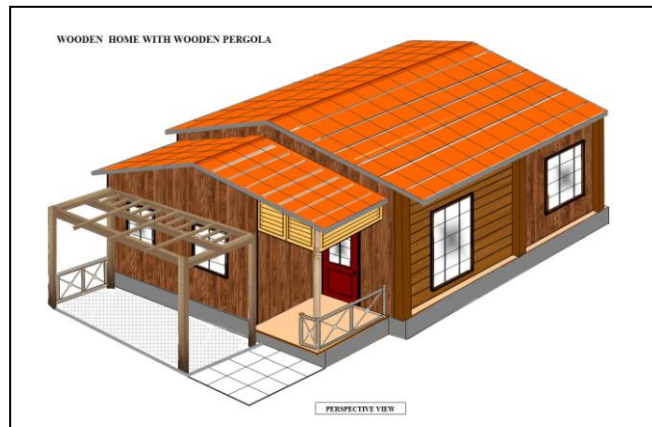


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10. WOODEN HOMES AND WOODEN STRUCTURES

Developed a complete system for production, supply and installation of pre-fabricated wooden homes and wooden structures. The structure is designed and produced to suit the tropical weather conditions.



One of the units of K.P. Jayabhanu based at Tellicherry designs, produces and installs prefabricated wooden structures in India. Consultancy service is extended in this regard to the associate company in Thailand.

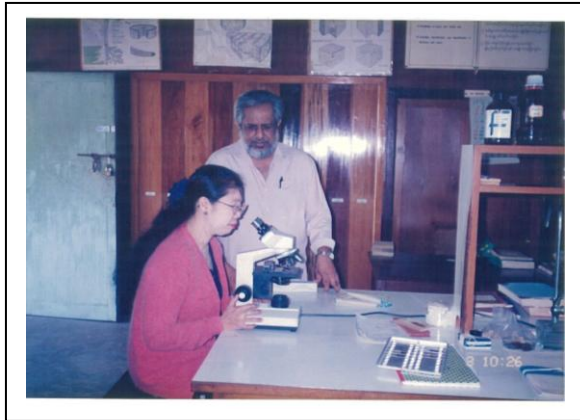


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11. CONSULTANCY ASSIGNMENTS

Considerable numbers of consultancy assignments were carried out in various countries in the areas of research and development and product and process development. Assignments covered the segments of solid wood processing, wood panel production and bio-mass utilization.



SOME OF THE REGIONS WORKED

- ❖ INDIA
- ❖ MYANMAR
- ❖ LAO PDR
- ❖ INDONESIA
- ❖ THAILAND
- ❖ PEOPLE'S REPUBLIC OF CHINA
- ❖ ITALY
- ❖ FINLAND





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CONSULTANCY ASSIGNMENTS - LIST OF MAJOR CLIENTS

1. **FOOD AND AGRICULTURE ORGANISATION OF THE UNITED NATIONS, ROME, ITALY**
2. **WORLD BANK, WASHINGTON, U.S.A.**
3. **ASIAN DEVELOPMENT BANK, MANILA, PHILIPPINES**
4. **LAO PLYWOOD FACTORY, VIENTIANE, LAO PDR**
5. **LAO PARQUET MILL, VIENTIANE, LAO PDR**
6. **INTERNATIONAL TROPICAL TIMBER ORGANISATION, YOKOHAMA, JAPAN**
7. **CENTRE FOR RESEARCH IN WOOD INDUSTRY, BEIJING, CHINA**
8. **FOREST RESEARCH INSTITUTE, YEZIN, MYANMAR**
9. **FOREST DEPARTMENT, JAKARTA, REPUBLIC OF INDONESIA**
10. **DORA MASCHINENBAU UND-VERTRIEBES, GmbH, GERMANY**
11. **RUBBER BOARD, MINISTRY OF COMMERCE, GOVERNMENT OF INDIA**
12. **CALABAR WOOD CO., CALABAR, NIGERIA**
13. **P T KONSULTAN SUBHAN BASUKI, JAKARTA, INDONESIA**
14. **MEXIC ENTERPRISES LTD., COLOMBO, SRILANKA**
15. **INDUSTRIAL RECONSTRUCTION BANK OF INDIA, CHENNAI, INDIA**
16. **NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION, NEW DELHI, INDIA**
17. **KITPLY INDUSTRIES LTD, CALCUTTA, INDIA**
18. **NATIONAL BOARDS LTD., ASSAM, INDIA**
19. **ETERNIT EVEREST LTD., NEW DELHI, INDIA**
20. **A V THOMAS GROUP OF COMPANIES, CHENNAI, INDIA**
21. **OSWIN WOOD PANELS PVT LTD., CHENNAI, INDIA**
22. **COMPOSITE BOARDS PVT LTD., CHENNAI, INDIA**
23. **ORCHID DESIGNS PVT LTD., CHENNAI, INDIA**
24. **WESTERN EXPRESS PVT. LTD., CHENNAI, INDIA**
25. **ANDAMANS TIMBER INDUSTRIES LTD., CALCUTTA, INDIA**
26. **LARSEN and TOUBRO LTD. – Building Products Division, CHENNAI, INDIA**
27. **RINCOS RUBBER WOOD PROJECT - NILAMBUR, KERALA, INDIA**
28. **CTHL (China) Co. Ltd., ZHENGZHOU, HENAN PROVINCE, CHINA**
29. **ICDP, ALLEPPY, KERALA, INDIA – COCONUT WOOD PROCESSING**
30. **NATIONAL MISSION ON BAMBOO APPLICATIONS(GOVERNMENT OF INDIA, DELHI)**
31. **COCONUT DEVELOPMENT BOARD(GOVERNMENT OF INDIA, KOCHI)**
32. **PT. INTI JAYA PRIMA, COCOS NATURA, JAKARTA, INDONESIA**
33. **NATIONAL GROUP OF COMPANIES, KOLKATA, INDIA**
34. **EXPORT PROMOTION COUNCIL FOR HANDICRAFTS (GOVERNMENT OF INDIA, BANGALORE)**



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12. PUBLICATIONS

1. ‘Coconut wood processing’ – article in Wood News magazine, Bangalore
2. ‘Alternate technology and equipments for wood processing’ – article in Wood News magazine, Bangalore
3. Products from coconut wood – Journal of Coconut Development Board, Government of India
4. Wooden Homes – article in Journal of Federation of Plywood and Panel Industry
5. Bamboo Process at Kosons, Guwahati, Assam – Report for National Mission for Bamboo Applications, Government of India
6. Rubberwood Processing – Report for FAO/ World Bank Consortium – Rome, Italy
7. Report on developing lesser known wood species of Myanmar to save teak forest – Consultant report, submitted to ITTO, Japan and Government of Myanmar
8. Home building – Development of technology – A book being published