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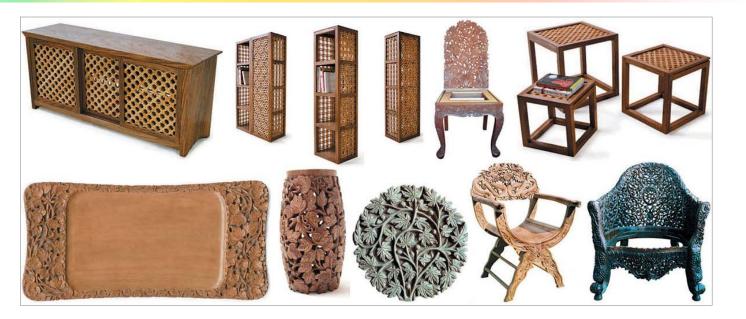
# **Walnut Furniture**

Traditionally Manufactured Wooden Furniture by Sandeep Sangaru Craft Development Institute, Srinagar

Source:

https://dsource.in/resource/walnut-furniture

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## Introduction

### Walnut Craft of Kashmir.

The natural beauty of the region is no doubt an inspiration and diverse skills are used to imaginatively replicate this legacy. Carved walnut wood work is one of the most important crafts of the valley and Kashmir is home to some of the best walnut wood carving done anywhere in the world.

Walnut is the most common wood used for carving and Kashmir is the only place in India where this wood comes from. It also is now one of the few places in the world where walnut is still available. The wood is hard and durable, it's close grain and even texture facilitates fine and detailed work.

Woodcraft in Kashmir has a history that spans over ten centuries. Wood work is a craft born of the needs of the local people and inspired by the rich variety of beautiful wood available in the valley, such as walnut and deodar.

The kashmiri craftsmen are renowned for their craftsmanship and the skill of the kashmiri wood worker is not restricted to small objects but extends to the fine geometrical designs of the ceilings, ornate doors and ceiling panels, cornices, facades and roof eaves as well as intricate Pinjra (Lattice) work.







Bowl in shape of Chinar Leaf

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### **About Project:**

The project proposes technology and production based intervention in the area of wooden furniture, traditionally manufactured in and Srinagar valley, Kashmir.

The project is envisaged a design development exercise involving professional designers, local artisans, manufacturers and traders engaged in the production of wood-based traditional furniture. The scope of the project also proposes to research and identify issues, concerns and bottlenecks towards quality and commercially viable production of furniture from Kashmir, for domestic and international markets.

### Objective of the Project:

- Design development of wood based traditional furniture, to address typical production related concerns towards innovating joinery & detailing.
- Introduction of related hardware and exploration of its application to achieve economical & quality oriented production of wood based furniture.
- Explore & develop alternative surface finishing techniques in the context of international markets.
- To Explore and demonstrate integration possibilities of modern technology with traditional techniques & skills base towards competitive design & production, in the context of present and future markets.
- Design development to achieve knock-down possibilities, convenient assembly, stakability and volume reduction for economical transportation.
- Design development to appreciate optimal use of raw material and human resource in production of wood-based furniture.
- Generate knowledge base and reference material in the above context to initial further development.

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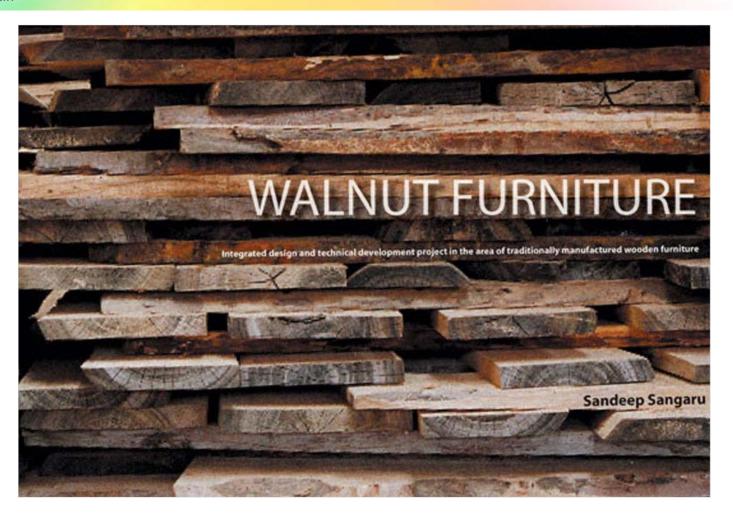
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Sandeep Sangaru

Craft Development Institute, Srinagar

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## **Slide Show**

### Design process that was followed:

- Introduction
- Field survey & Information Collection
- Kashmir
- Walnut wood working
- Historical reference
- Trade Structure
- Craftsmen
- Trade and market
- Patterns, Motifs
- Raw Material
- Seasoning
- Existing products
- Analysis & Approach
- Analysis
- Approach
- Other crafts
- Product Development (Concepts, Process, Prototypes)
- Furniture
- Accessories
- Profiles
- Craftsmen Participated
- Designers
- Drawings

### **Resource Downloads:**

• Walnut Furniture - Slide Show – pdf

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INTEGRATED DESIGN AND TECHNICAL DEVELOPMENT PROJECT IN THE AREA OF TRADITIONALLY MANUFACTURED WOODEN FURNITURE

Assistant designers: Raniit Khaira, Mann Singh

Sponsor: Development Comissoner (Handicrafts) Co-ordinator: Craft Development Institute, Srinagar

02-21

22-35

36-79

80-81



Project Coordinator & Designer : Sandeep Sar Junior Designers : Ranjit Khaira & Mann Singh

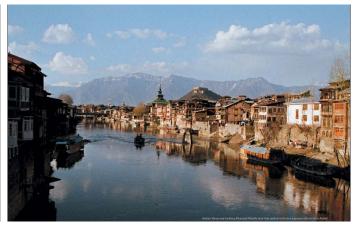
Document design & Photography : Sandeep Sangaru Research & Documentation : Ranjit khaira & Sandeep Sangaru

### Foreward

At the dawn of the 21st century there is a new way to see Cost. National booden, local typies, and traditions still exist, but there is an emerging waveness that tractisends cations established when the world did not more so fast. Technology, Computers and the rise of letteret three worlds are considered to the contraction of the cont

My endeavor from the first has been to understand the distinct view My endeavor from the first has been to understand the distinct view of the general principle, which governs the historical development of a card, and my hope is that those who pusue this subject add on the pages of the persent work in this document. The we attempted to texture the document by using a lot of photographs for visual reference and situmidation. All to move work need to be done in this area to preserve and document for days to come.

I acknowledge designers Ms. Barjit Khaira and McMann Singh in assisting me in this project and contributing towards research and design. I took almost all the photographs over the dusation of the project and an included the McMard for Schreimig me source and an included the McMard for Schreimig me source and a single schreimig and the McMard for Schreimig me source and the McMard for Schreimig me source and a single schreimig me source and single schreimig me source schreimig me source and single schreimig schreimig me source and single schreimig contribution of the support Longer land single schreimig schreimig schreimig me and single schreimig characteristics.



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### Introduction Kashmir

The project proposes technology and production based intervenion in the area of wooden furniture, traditionally manufacured in and Smitagur sulley, Satisfies, and support of the project also proposes to research and identify insure concerns and bottomers to work object also proposes to research and identify insure concerns and bottomers to ward explaint and commercially suitable production of frimiture from leafuring, for domestic and international markets.

### Objective of the project:

History

-Design development of wood based traditional furniture, to address typical production related concerns to wards innovating joinery & detailing, introduction of related hardware and exploration of its application

to achieve economical & quality orirnted production of wood based Explore & develop alternative surface finishing techniques in the

\*\*Diptore & develop atternative surface finishing techniques in the context of international marketts. For Explore & demonstrate integratio possibilities of modern technology with traditinal techniques & skills base to wards competetive design & production, in the context of present and fixture markets.

competieve design & production, in the context of present and future markets. Design development to achiev knock-down possibilities, convenient. Obesign development and volume reduction for economical transportation. Design development to appreciate optimal use of raw material and human resource in production of wood based furniture. Generate knowledge base and reference material in the above connect to install farther development.

The natural beauty of the region is no doubt an impiration and diverse skills are used to imaginately replicate this legacy. Cared walnut wood work is one of the most important cards of the valley and Kashmi is home to some of the best walnut wood out of the part of the skill of the kashmi wood carring done anywhere in the world. The kashmi cartemen are removed for their carternanship and the skill of the kashmi wood worker is not extracted to made logicy but not exclude to the lege centrical clarging of the ceilings, create doors and ceiling panets, connects, fixedes and nord-verse as well an instructed Project Lindon version.





Walnut is the most common wood used for carving and Kashmir is the only jabce in India where this wood comes from K. also is now of the few jabce is the world where useful as still available. The end of the few jabce is the world where useful as still available. The end of the control of th





Hamitan of magints and saint and shallkain and the sinnle of Shelish Hoor-ud Din Wall at charal-sharted are some of the buildings in Stinagur that have elaborate wood work and unique type of wooden colling in Khatamband design. Wood work is a craft born of the needs of the local people and inspired by the rich variety of beautiful wood available in the valley, such as waint and deckning.



The other is a much larger organization which houses many different units, each specializing in a particular product. These organizations cater to the domastic market and are also involved in capital caterial c





### Craftsmen

Wood carving is done on a variety of articles both decorative and utilitation. Objects-ranging from furniture (tables, chairs, writing selecks, dhing tables, beds, via heis, sets, parles, screens, doors to article of personal use like digat boxes, jevelity boxes, protein faces, other to a standard of personal use like digat boxes, jevelity boxes, protein faces, pr







Depending upon the design, many a times a major portion of the basic structure is all hand carved, such as the legs and the curved members in a furnitupe less. Accessioner like books and serving tays are entirely hand carved. The basic piece, which is assembled by the person to finally sent in beautiful particular to the propose to finally sent in boardiful, aschedic and valued charm. The carver (Bacquash) is responsible for creating the very characteristic launth element in these products. Depending on his carving that and the carving the sent product, it can take a curve spring from a level, sho to sent most produce carven growth. The most is and the carving patients are many influenced by the floar have been passed on from generation to generation.



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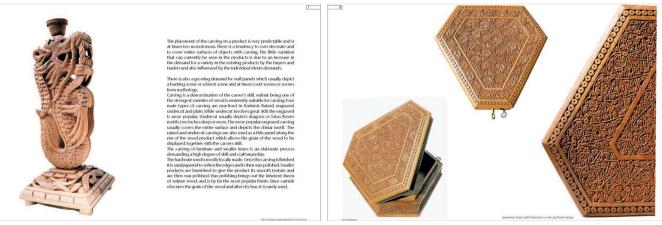
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### Motifs and carving styles

The Kashmiri craftsman rejoices in carving intricate and varied designs based on lively natural forms. A variety of carved products bear varied stylization of the rose, lotus, paisley motif, bunches of grapes, chinar leaf, Narcissus, Iris and othe local flowers and foliage. Lhasa dragon motifs and patterns taken from kani and embroidered shawls all find their place in wooden objects with deep relief carving. A variety of articles, both decorative and utilitarian, ranging from small items like bowls trays boxes table lamps and larger items of furniture are carved in walnut wood











### Raw material and Seasoning

Walnut as a tree is not used for wood as a raw material but

stylent as a tree is not used for word as a tree metarial breat date given fruits. A tree is only care the portionation from the date given fruits. A tree is only care the posturent with the content department, which come through after theorough inspection and approval. Tades and individual calcriften bid through auction. The auctions are made periodically from time to time depending upon availability. These logs of wood are sold at approximately fluipses six hundred per cubic feet and the quality of words in always at the burger fish and the expension of selections and stored or left for seasoning. There is lot of wastage when log is cut into usable are wasterial and the cost per cluber here log is cut into usable are wasterial and the cost per cluber to requirement.

The product for the made crifforms neeter wood and reside to requirement.

The product for the made crifforms neeter wood and reside to requirement and the cost per control of the control of the cost of the cos wood destroying fungi, in particular, is prevented. Seasoning in Srinagar is usually done naturally. Planks are cut and

stacked to dry naturally allowing air to pass through. It takes 3-4 years for wood to work on.

### Effect of Seasonina on Wood Properties

Whether artificially seasoned or left to dry naturally in place, wood Whether artificially seasoned or left to dry naturally in place, wood in service will ultimately assume a moisture content level that is consistent with the relative humidity of its surroundings, i.e., it will addorb or deabsorb moisture from or to the atmosphere until the vapor pressure of the water in the wood just balances the partial pressure of the water vapor in the surrounding air. This equilibrium value, or equilibrium moisture content, varies with climatic as well as service conditions and may easily range from 4 percent for furniture in a heated house to 12 percent for timber in covered but unheated

baldings. Removal of so-called fire water, or say, from cell cavities has little effect on wood other than to lighten it, but removal of 'mibbed', or 'hygocopoli,' notionate from the cell walls materially affects its physical and mechanical properties. Fee water is removed first during which are sufficiently affects in the sufficient of the sufficient properties. The sufficient properties of the sufficient properties o

Of the methods available for seasoning wood, air-drying is the oldest and simplest. Air dired lumber is suitable for exterior use, and green timber is a also frequently allowed to partially air dry prior to kin drying. Since the effectiveness of the drying process depends upon weather conditions which control the drying rate and the final moisture content which can be reached, air drying has been replaced. by kiln drying in many areas but is still an important process. Most air seasoned material is dried in flat piles with stickers placed between seasoned material is dired in flat pites with stickers placed between layers, but when the searchial to have replatifying to prevent spa stain, end pilling may be used, in humid areas this may be necessary if a dry kill is not available. Such end racking promotes good air circulation and consequent rapid drying which eliminates the staining problem but offen causes end surface checking and warping of the material. Another method of pilling once used to promote rapid drying was used to be supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the control of the promote rapid drying was supported by the promote rapid dryi

edge piling. Although it is generally thought that air-drying is a gentle method

of seasoning timber, it is often severe depending on the time of the year and the species involved. Alterials cat from the east, sycamore, beech mapile, and other woods, which were large yars, will surface check readly and consequently thick materials cut from these trees are frequently caused with a material and as a paraffin or tar to retard exposition, but often this is not enough protection, and it is necessary to jack the material in what are known as semi-alterial to necessary to jack the material in what are known as semi-alterial nothing more than covered thodis in which the material is jelde, but you may be the proper of the proper of the proper of the their properties. It is not a properties of the whole the temperature is materiated at 110 for 107 for and firm are where the temperature is materiated at 110 for 107 for and firm are where the temperature is materiated at 110 for 107 for and firm are monthly content in 3 monthly.

### Reasons for air drying wood

- To increase dimensional stability. Wood shrinks across the grain (not along the grain) when it dries. If wood is cut to size before it is seasoned, it will shrink during drying and thus be undersized in its final form.
- To reduce or eliminate attack by decay or stain. Wood that is dried below 20 percent moisture content is not
- that is divide below 20 percent moisture content is not susceptible to decay or say patining. To reduce the weight. The weight of lumber will be reducedby 35 percent or more by removing most of the water in the wood or, as we say, by 'seasoning'. To increase the strength, as wood diese, the stiffness, hardness and strength of the wood increases. Most species of wood increase their strength characteristics by 50 percent or more during the process of dying to 15 percent moisture content.

Kill drying of lumber is perhaps the most effective and economical method available. Drying rates in a kin can be carefully controlled and defect tools reduced of a annihumat, neight of drying time is also greatly reduced and is predictable so that dry lumber inventories or in the ordy reaconable method that can be used unless of benical days are considered in the observation of the ordy reaconable method that can be used unless of benical days are considered in the observation of the ordy reaconable method that can be used unless of benical days are considered in the observation of the ordy that the ordy reaconable method that can be used unless of benical days are progressively and only the kills much as a can move shough a tunnel. Temporature and humidity differentials are maintained throughout he heigh of the skills so that the humber dumps are progressively dired when the length of the skills so that the humber dumps are progressively dired with the standard of the days of the skills of the subothered in contact drain it winch research as a draft kills in which has the analysis of social draft kills in which has a employed to force the air through the material by natural convections. Compartment kills differ from progressive kills in that the timber is loaded into the kills differ from a dramains in place that progressive kills in the state of the process. Compartment kills are measured in place that progressive kills, in the state was the process. Compartment kills and are usually smaller than progressive kills,

process. Compartment kilns are usually smaller than progressive kinns and because of their construction the temperature and humidity conditions within them can be closely controlled. Consequently expensive material or woods, which are difficult to day. Circulation may be either forced or natural just as when progressive kinns. Design conditions cannot be controlled as closely in progressive kinns. natural draft compartment kilns, however, as in forced draft kilns, and the rate of drying is also slower. For these reasons kilns built today are of the forced draft type and many of the old natural draft types have

Although dehumidification drying is relatively new compared to conventional kiln drying, it is now used by significant numbers

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of manufacturers. Reasons for its popularity include low capital investment relative to that for conventional kilon and simplicitly which popularities. The process is based on refringeration technology which is both relatible and cost efficient.

In the process is based on refringeration technology with its both relative and the size of the reason of the size of the reason of the size of the reason was to the kilon chamber. Heat generated by the dehmanifiler is retained to the kilon chamber thest generated by the wild not provide the energy reeded for evaporation of molitative and have been applied to the size of the size

### Objectives of Seasonina

Regardless of the method used the objectives of any seasoning Regardless of the method used the objectives of any seasoning process are to of the material to a low uniform motisture content with a minimum amount of degrade in a minimum amount. There objectives are not all compatible with one another, and one time with a minimum cost for operating sepenies and equipment. These objectives are not all compatible with one another, and one situation must necessarily determine the relative emphasis placed on each objective. Thus rate of drying must often be retarded on each objective. Thus rate of drying must often be retarded unless the objective. Thus rate of drying must often be retarded unless the objective. Thus rate of drying must often be retarded unless that one of the objective. Thus rate of drying must often be retarded unless the objective. Thus rate of drying must often be retarded unless when the objective of the objective. Thus rate of drying must often be retarded unless when the objective of the objective objective of the objective of the objective of the objective objective of the objective objective of the objective objective of the objective object





Tools



Kashmiri wood Carving needs certain tools such as

used to caree the stems of flowers, used to caree beature used to caree beature used to caree petals of thowers especial those with three petals. If the petals of the petals of the petals used to give round shape to chinar leal used to give found shape to chinar leal used to give found shape to chinar leal used to give the round shape to used to give the round shape used to give texture of leaf-tainmal/flo-used to agree between the motifs Kind of a wooden hammer.

Kashmir has been through a lot of abuse and invasion. The influence of

Pinira-kari (Lattice work).

available hardware sources and construction techniques practiced locally. Adding value to a product by incorporating minimal carving and decoration, this would fetch more returns to time spent, this would mean having high quality carving in small quantities.

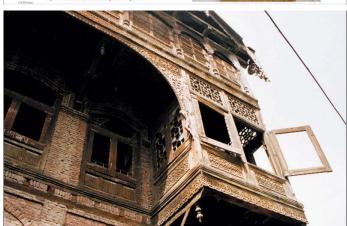
To incorporate Knockdown feautres in furniture from the

3. Combination of different Material & Process. Using other

Crafts techniques in the region like, Papier-māché, Copper ware, Willow Wicker, Chain Stitch Crewel for Upholstery and









Kashmi has been through a lot of abuse and invasion. The influence of different rulers and cultives in the passing time has shaped what the confl is today it is clearly reflected through the Diagon Lash pattern that the conflict study it is clearly reflected through the Diagon Lash pattern in the conflict study is conflicted to the conflicted to the conflicted to the conflicted through the conflicted to t

After observing these crafts and Architecture we narrowed down to the following. Broadly trying to satisfy the following criteria:

Form and Proportions in fu Construction & Detailing. Material & Finishes. Knock down features and Minimalisim

Refining Existing products and creating minimalist Contemporary forms and shapes using traditional Patterns Motifs and Forms.

Taking inspiration from local Architecture and Construction. Which is very distinct. The mosques of Shah Hamdan of Naqshband salbub and Khankali Moulla and the Irinie of Sheikh Noor-ud-Din Walia Lotharai-raharief are some of the buildings in Shiragar that have elaborate wood work and unique type of wooden ceilings in Khatamband design and very fine lattice work or traditionally called Projes-karl.

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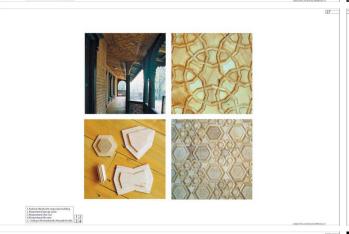
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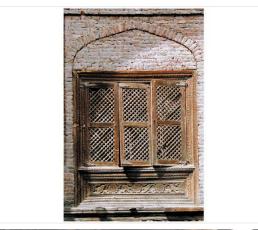
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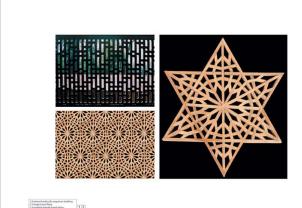
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### Product development

This section of the document describes visually the journey from concept sketch to prototype. following describes an overview of the idea behing the concepts.

Design-01,06 & 07: Taking elements from architectural details of mosques. And using the construction detail of wooden screws which, is commonly used in small products like lamp stands, walnut crackers etc. made of

admit wood.

Adding a subtle texture of scooping out material with a chisel enhancing gain and color of walnut wood. This texturing gives the product a different finish and feel. Different patterns can be created using this technique. when the wood is clear of grain and light in colout, back of the seat is fully carved.

Design-02: The proportion and shape of this stool is derived from the arches and architectural elevation of mosques and Shrimss found in Sinapar. The construction character and detailing is inspired from the wooden bridges. A range of designs can be created using this style of construction and styling.

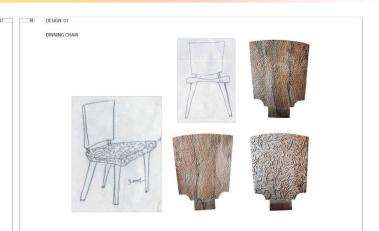
Design 03,04,05 6.06: Drigs lain or lattorwook which was used very extensively as an element in the local arthercion. This could more juscified anymore element in the local arthercion and the local strategies of the local

Design-09: Trying to redefine and refine some existing products like this sofa (page-11).kim was to minimize and enhance Shafaq-work/Jalliwork) with fine carving finished on both sides. Modularity in construction and assembly was considered while designing this product. Which

### Concepts, Process & Prototypes 37

Design-10.6.11:
These two products are designed again to demonstrate different techniques to enhance wood grain with some shaping and carving, activities, and the second products are designed and serving and convey and domes of fallamia cachitecture, which is found in some solidings and miss in and around fishings. And is a very common feature in Mughal architecture also. The writing desk is designed keeping in mind the usability into most sides, that table has no back and can be usable type to most disk, that table has no back and can be used in a norm disked writings the gaace around and making is a round real service.

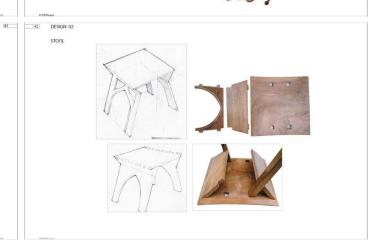
Design- 13 to 19:
Accessories or small products made of walmut wood like Trays, bowls, boxes, lamps etc. are a big part of the trade. We selected a few of these products to accessorize the furniture that was designed in this project. There is a big tourist market and export market where these smaller products are in demand. The products developed are simple straight forms with fine caving.











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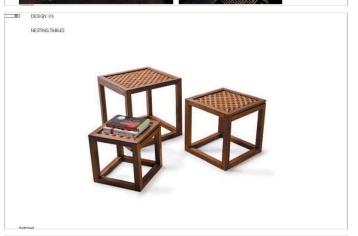
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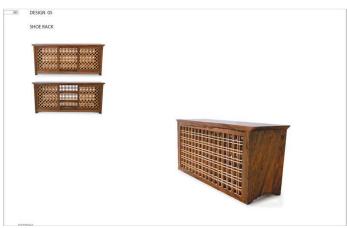
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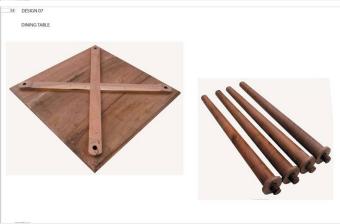












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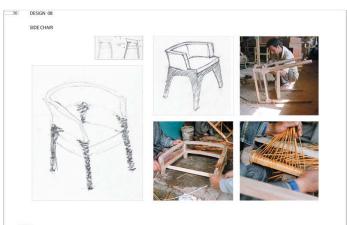
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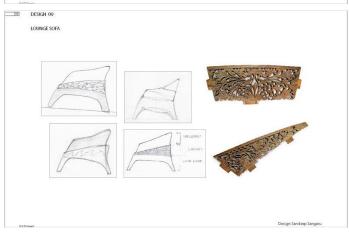
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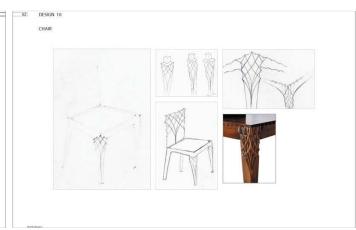
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# **Walnut Furniture**

Traditionally Manufactured Wooden Furniture by Sandeep Sangaru

Craft Development Institute, Srinagar

### Source:

- 1. Introduction
- 2. Slide Show
- 3. Contact Details













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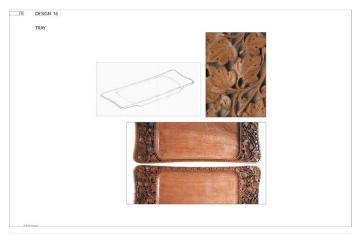
Traditionally Manufactured Wooden Furniture by

Sandeep Sangaru

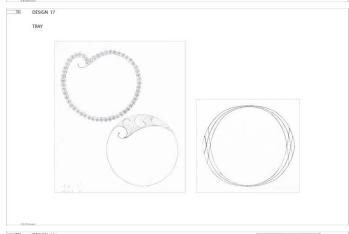
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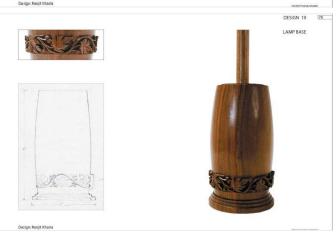












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https://dsource.in/resource/walnut-furniture/slide-show

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### © Craftsmen participated

Ess Que Hawal, Srinagar,

Meheraj-u-din Sheikh (Carver) S/o Gulam Nabi Sheikh R/o Vicharnag, Shophi Mahala Srinagar.

Shabir Ahmad Bafanda (Carver) S/o Abdul Ahad Bafanda Kamangarpora Jamia Masiid, Srinagar

Owais Ahmad Malik (Carves) S/o Abdul Rashid Malik Nahwara Dangarpora, Srinagar

Meharaj-u-din Gillcar (Carver) S/o Gulam Mohamed Gillcar r/o M K Chor, Hawal, Srinagar

Mustaq Ahmed Butt (Carpentee) S/o Gulam Rashid Butt R/o Dull Hasan Yar Habba Kadal, Srinagar

Abdul Qayoom Dar (Carpenter) S/o Gualam Rusul Dar R/o Batwara Bund, Srinagar Sajad Ahmed (Carpenter)

S/o Gulam Ahmed Sheikh R/o Habak, Nasim Bagh Srinagar Showkat Ahmed NajariCarne

Showkat Ahmed Najar(Carpenter) S/o Gulam Ahmed Nazar R/o Khrani Hana Lar Gandharbal, Srinagar Abdul Rashid Khan (Carpenter) S/o Gulam Muheedin Khan R/o Nadi Kadal, Srinagar

Abdul Raham Sheikh (Carpenter) S/o Gulam Rahman Sheikh R/o Zinmar, Shanpora Srinagar.

### Khalil Md. Kalwal's Workshop

Khalil Md. Kalwal (Carver) S/o Late Gh. Ahmad Kalwal Lal Bazaar

Fayaz Ahmed Kalwal (Carver) S/o Khalil Mohd, Kalwal Lal Bazaar

Gh. Nabi Tarfarooz (Carvet) S/o Gh. Mohiddin Tarfarooz Umer Colony Lal Bazaar Srinagar

Abdul Hamid Beigh (Carpenter) S/o Late Assad ullah Beigh Qureshi Mohalla Lai Bazaar Srinagar,

### **Kashmir Standard Craft**

Md. Asraf Bhat (Carver) S/o Gulam Ahmed Bhat Okhum sahib Opp, Islamia College Gate Hawal, Srinagar Pin-190002 Ab. Rashid Najar (Carver) S/o Gulam Mohd Najar R/o New colony GadaPora Srinagar

Abdul Gani Khan (Carpenter, S/o Abdul Aziz Khan r/o Nandrish colony(B) bemina Srinagar

Tariq Ahmed Sheikh (Carpenter) S/o abdul Razaq Sheikh R/o Navsara Srinagar

Nazeer Ahmed Ghanai (Carver) S/o Gulam Ahmed Ghanai Islamia College Kandivar Srinagar

Md.Rafiq Nazar (Carver) S/o Ismail Nazar R/o Nandrish Colony(B) Bemina

Srinagar

Farooq Ahmed Rangrez(Polisher) S/o late Md. Sidih Rangrez R/o Kili Masjid Sraf Kadal

### School of Designs, Miskinbagh

Gulam Md. Rag (Carpenter) S/o Md. Iqbal Rag R/o Sfa Kadal Zadi manzil, Srinagar Gulam Nabi Rishi (carver) 5/o Gulam Ahmed Rishi R/o Gali no.3, Home no.150 Basta Mahal Lal Bazaar, Srinagar Gulam Rushul Ahangar (carver) S/o Abdul Rehman Ahanagar Rushangra Zuzlangra

81

Ahmed Bhat (Polisher) S/o Noor Md. Bhat Arampura Nava Kadal Bakshi Park

Designers Profile

Sandeep Sangaru
Industrial Designer

1999 Post Graduated Diploma in Industrial Design (Furniture Design), National Institute of Design, Ahmedabad, India.

1996 BE Mechanical from Utkal University, Bhubaneswar, Orissa.

Work Experience

2004 Design Consultant, Visiting faculty to NID.
2002-2004 Faculty at National Institute of Design, Ahmedabad, India.
1999-2002 Partner, Digital Force, Special Effects House, Hyderabad,
Associate Designer, New Curriculum Development for
Accessory Design.

Interest

Film Making Structure Design Research & Teaching Craft and Design Photography

Address: Flat no. 7 Plot no. 229 Defence Colony P.O. Sainkpuri Secundrabad – 500 094

Mobile: 093913 85317 Res.: 040 55225183

E-mail sandeep@sangaru.com URL www.sangaru.com

Mann Singh

Industrial Designer.

Qualification

Graduate Diploma in Industrial Design (Furniture) National Institute of Design. 2002.

Experience:

Design head: Devi design, New Delhi.

iterests:

Systems Thinking and Design. Craft Development. Education and training.

Geometry

Installation and interactive design

Address:

V 311, Army flats Mansa devi complex Panchkula, Haryana

mannsingh@hotmail.com Mobile: +91 98106 48845

Ranjit Khaira Industrial Designer.

Qualification

Post graduate Diploma in Industrial Design (Ceramics) National Institute of Design. 1999 Bachelor in Finearts. MSU. Vadodara. 1996

Address: 503 Pratap towe

behind Angar tower, IG Marg, Manjalpur, Baroda-390004

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### **Contact Details**

This Project was done by Industrial Designer Sandeep Sangaru under The Craft Development Institute (CDI). These craft development studies were undertaken by Designers for CDI, Srinagar and have been contributed by Mr. Farooki, Director, CDI, Srinagar.

You can get in touch with Sandeep Sangaru at sandeep[at]sangaru.com

### **Key Contact:**

Sandeep Sangaru Industrial Designer Flat no. 7, Plot no. 229, Defence Colony P. O. Sainkpuri, Secundrabad - 500 094 India

Mobile: 093913 85317 Res.: 040 55225183

Website: www.sangaru.com

You can write to the following address regarding suggestions and clarifications:

### **Helpdesk Details:**

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