

## Designing of wall panel using sola wood inspired by different motif

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### Abstract

“Design of wall panel using sola wood inspired by different motifs.” This study will be beneficial for development of tribal art and for popularizing sola wood at mass level. Various designs of different category were collected and scrutinized to prepare the design sheet. Sheets were designed inspiring from the different motifs and techniques. 100 respondents evaluate the wall panel on the basis of motif, color combination, aesthetic appearance, uniqueness, overall appearance and price acceptability. Consumer preferences were found to be excellent to very good and consumer accepted the actual price suggested by the researcher.

**Keywords:** Sola Wood | Wall panels

### Introduction

A Wall Panel is single piece of material usually flat and cut into a rectangular shape that serves as the visible and exposed covering for a wall. Wall panels used for as well as decorative, providing insulation &soundproofing purpose combined with uniformity of appearance ,along with some measure of durability or ease of replace ability. Practical size for wall panels has been suggested to be 24 feet by 8 feet.

Sola woodwork has a history of over 300 years Sola is a weightless wood found in West Bengal, Bangladesh Mysore Here is an opportunity to learn the popular art of West Bengal — sola woodwork. Having a history of over 300 years both men and women in the families engaged in this art are carrying on the tradition of Sola work religiously. First they draw the designs on a paper and cut the wood accordingly. Models of Goddess Durga, Lord Ganesh and Goddess Kali are prepared more and they also decorate it with colours and artificial jewels. These models were shown to the participants to explain the intricacy of the work. Other items like ship, peacock, Taj Mahal, horse cartetc are also prepared from the wood. (Shankar Bennur, 2007)

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Sola Wood is a naturally obtained material derived from the tapioca plant tapioca is a starch extracted from cassava root. Sola wood is a weight less wood. Different type of shape have been made with the help of sola wood like peacock hoarse, flower and leaves but now we create different type of design using sola wood and selected various motif were categorized for making designs on wall panels.



The Design council Design in Business week concluded that making things better for people. It emphasizes that design activity is focused first and foremost on human behaviour and quality of life not factors like distributor preference. But nurses or road sweepers could say they to make things better for people Richard *et al.* (2002). Eco friendly 3D wall panel made out of the fibrous residue of sugarcane. This fibers of crushed sugarcane stalks remaining after raw sugar is extracted from the juice of the sugarcane by shredding it is now the raw material called bagasse that forms the base of this easily installed eco friendly product. The raw material used for this 3D wall panel is 100% recycled compostable and is therefore 100% biodegradable (Arthur M. Usmani 1982). Insulated metal wall panels are popular because they can be a simple and economic strategy for cladding a building. Because the insulation is integral to the cladding and is sandwiched between two metal skins the cladding support structure

does not act as a thermal bridge. However, we observed that the joints between the panels become critical to maintaining thermal integrity for the system Thermal Bridging Research (2015). Due to different approaches to the joints a large discrepancy was observed in the thermal images between the different options with some at 60-70% less than the baseline R-value and others at only about 3% thermal degradation. In designing motifs are just starting point, they can be duplicate, re- interpreted in different colors or experimented with in many other ways (Kenneth D. King, 2006). Design is a solution to a problem or designing is the process of solving a problem”, but before we can think about the solution the first thing that needs to be explored is "The problem that you will have to solve in the designing stage (Hemant Jha, 2008).

Therefore, investigator thought to undertake a project work on designing by using Different enrichments techniques such a Dabka Work, Beads Work, Cut Stone, Sequence Work, Patch work, Mirror Work, Embroidery etc.

### **Significance**

- This study will provide a new range of variety for craft work.
- New developed design can open new dimension for designing wall panels in 3D dimensions.
- This study will be helpful in increase the diminishing charms of sola wood.
- With the help of this study sola wood may be popularized at mass level.

### **Methodology**

The study was conducted carried out on the basis of consumer and market survey, which

was conducted in Banasthali Vidyapith, Rajasthan. Then motifs were collected from the books, library and internet sources. After selection only best motif was selected for create the wall panels. Preparation of design sheet selected by various motifs after that assessment of design sheet on basis of five point rating scale *i.e.* 5-excellent, 4-

verygood, 3-good, 2- average and 1- fair. and constructed of wall panel. When we constructed wall panel pricing and costing was done 10% profit was also added in calculated cost after that evaluation of wall panels, selection of sample, display and demonstration were done.

## Result and Discussion

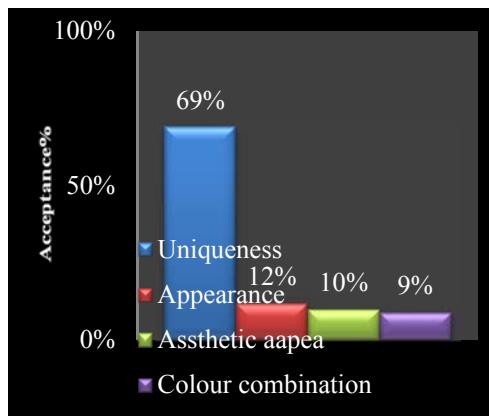
S. No.	Theme/Description	Criteria W.M.S (Weighted Mean Scores)			
		Suitability for technique	Motif arrangement	Combination of motif	Over all
1.	Sola Wood With Simplify +Phulkari + Warli Motif	2.59	2.49	1.65	2.51
2.	Sola Wood With Simplify+, Phulkari Motif	2.53	2.54	2.36	2.53
3.	Sola Wood With Simplify Motif	2.51	2.49	2.43	2.43
4.	Sola Wood With Phulkari + Silmalify Motif	3.75	2.54	2.55	2.58
5.	<b>Sola Wood With Stylish+ Floral Motif</b>	<b>3.68</b>	<b>3.79</b>	<b>3.59</b>	<b>3.47</b>
6.	<b>Sola Wood With Stylized+ Floral</b>	<b>3.76</b>	<b>3.7</b>	<b>3.66</b>	<b>3.77</b>
7.	Sola Wood With Warli + Simplify Motif	2.06	2.67	2.56	2.66
8.	Sola Wood With Warli	2.95	2.98	2.77	2.88
9.	Sola Wood With Geometrical+ Simplify	2.77	2.96	2.89	2.94
10.	Sola Wood With Floral + Simplify Motif	3.01	2.95	2.97	2.94
11.	Sola Wood With Warli+ Simplify Motif	2.83	2.77	2.83	2.83
12.	Sola Wood With Geometrical + Floral	2.5	2.6	2.6	2.6
13.	Sola Wood With Warli+ Stylized	2.9	2.7	2.8	2.8
14.	Sola Wood With Geometrical Motif	2.81	2.5	2.21	2.64
15.	Sola Wood With Stylized+Geometrical Motif	2.74	2.5	2.65	2.79
16.	Sola Wood With Geometrical + Phulkari Motif	2.76	2.75	2.90	2.58
17.	Sola wood With Phulkari + Stylized Motif	3.20	2.9	3.7	2.7
18.	<b>Sola Wood With Phulkari+ Simplify Motif</b>	<b>3.6</b>	<b>3.6</b>	<b>3.4</b>	<b>3.3</b>
19.	Sola Wood With Geometrical+ Phulkari	2.7	2.6	2.6	2.78
20.	Sola Wood With Phulkari + Warli Motif	3.03	3.01	3	3.02
21.	Sola Wood With Phulkari + Simplify Motif	2.71	2.64	2.32	2.6
22.	<b>Sola wood With Stylized + Simplify Motif</b>	<b>3.8</b>	<b>3.31</b>	<b>3.25</b>	<b>3.4</b>
23.	<b>Sola Wood With Warli Motif</b>	<b>3.08</b>	<b>3.02</b>	<b>3.08</b>	<b>3.9</b>
24.	Sola Wood With Warli + Simplify Motif	2.9	2.8	2.77	2.82
25.	<b>Sola Wood With Phulkari+ Stylized Motif</b>	<b>3.9</b>	<b>4.16</b>	<b>4.8</b>	<b>4.12</b>

To make a good product, it was necessary to know the customer's need and their view for interior decoration .Keep mind on this concept this survey was conducted on type of wall panel made up sola wood and various embellishment techniques. Knowledge about Sola wood was asked from respondents and it was found that 46% respondent don't know about sola wood while 54% respondent do

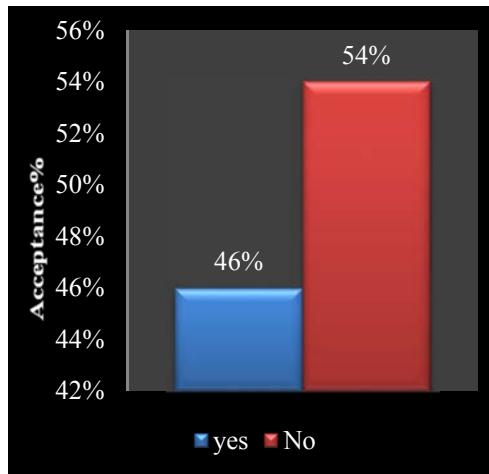
have any idea about sola wood. Combination preference for wall panels was asked from respondent and it was found that 35% respondent suggests Embroidery + Beads Work+ Sola Wood combination preference for wall panels. Respondents also show a great interest in dark colored base on wall panel. Base material like for wall panel was asked from respondent and it was found that

40-45% respondent like velvet fabric base material as for wall panel

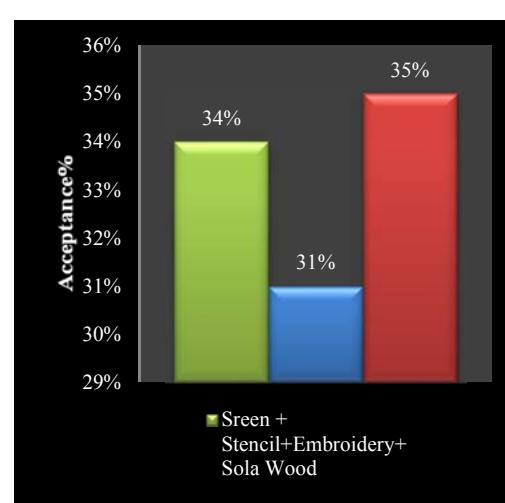
Data present in table shows the consumer acceptability for different design sheets for wall panel consumer preference for design sheet.



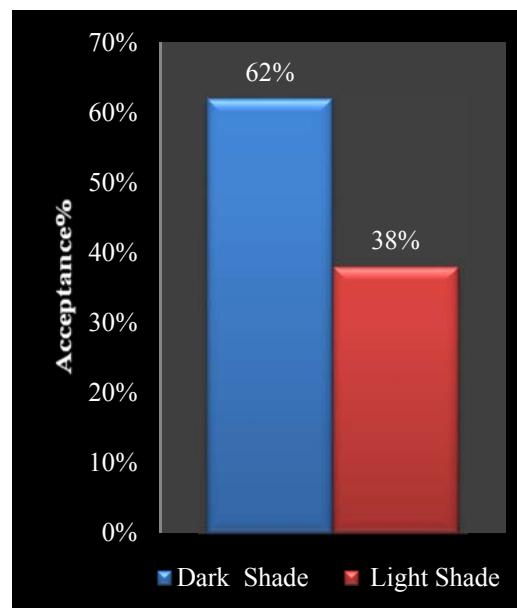
**Fig. 1:** Consumer Parameter for Designing



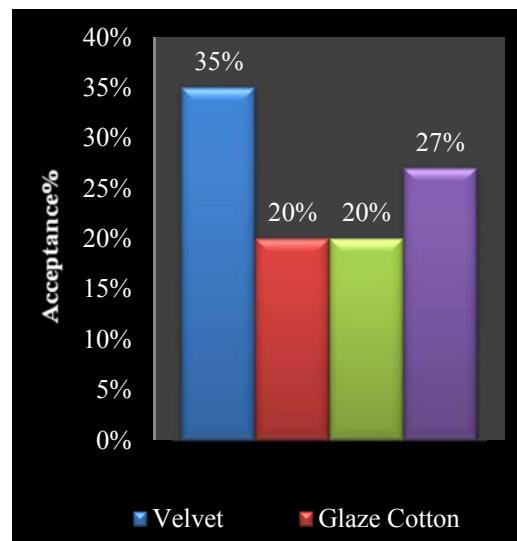
**Fig. 2:** Knowledge about the Sola Wood



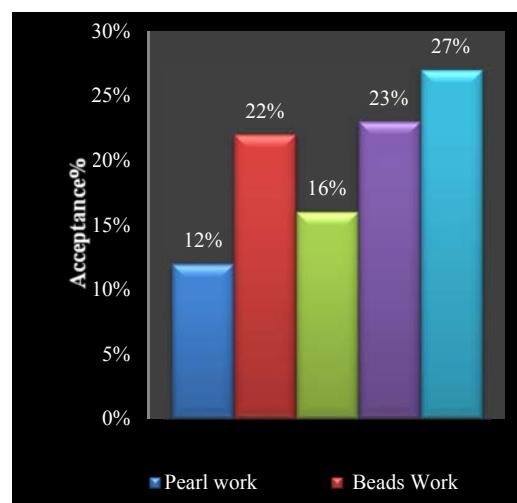
**Fig. 3:** Consumer Preference for Type of Combination



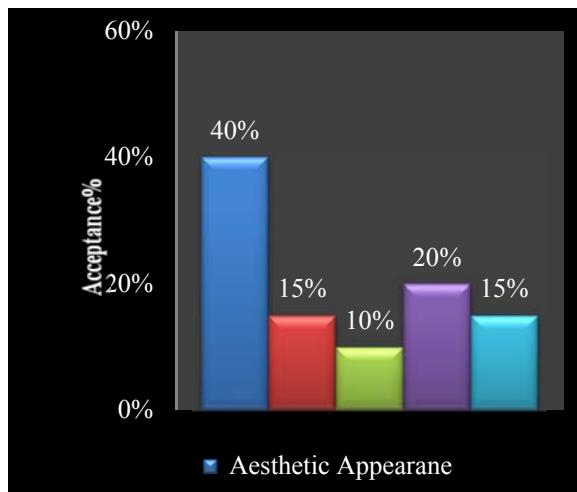
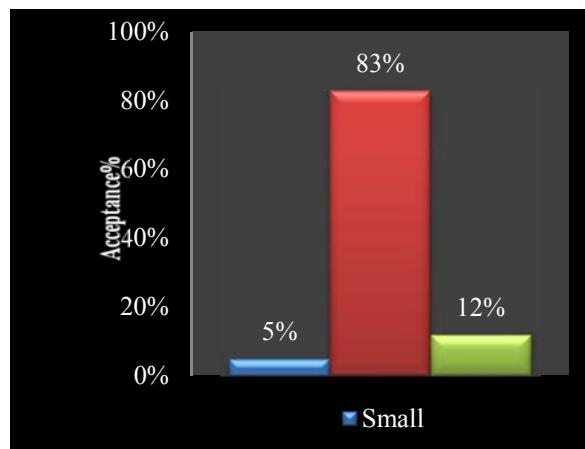
**Fig. 4:** Consumer Preference for Base Color



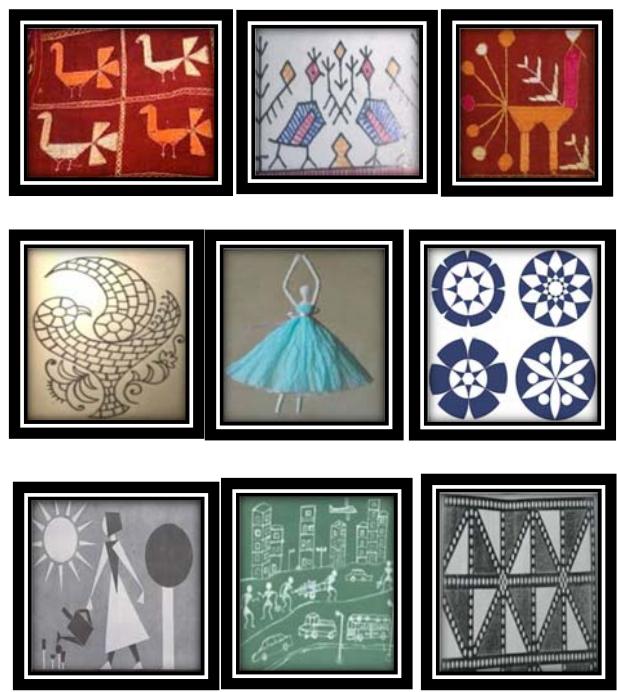
**Fig. 5:** Consumer Preferences for Base Material



**Fig. - 6:** Techniques like The Most for Wall Panel

**Fig. 7:** Factors affecting in selection for designed wall panel**Fig. 8:** Size of Wall panel

**Collection the various motifs (warli art, Stylized, Floral, Phulkari, Geometrical, Simplify)**



Consumer preference for final selected designed sheet On the basis of consumer's preference seven sheets was selected. Consumer was asked to analysis each design on the basis of five point rating scale. Result of final constructed prototype on the basis of consumer's preference seven prototypes was developed. Consumer was asked to analysis each design on the basis of five point rating scale and result of final constructed prototype on the basis of different criteria like on the basis of motif, color combination, aesthetic appearance, uniqueness, overall appearance, and price.

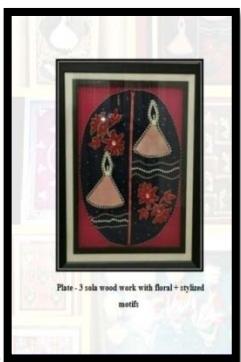
Prototype	Design sheets No.	Ranking
1	25	3 <sup>rd</sup>
2	6	4 <sup>th</sup>
3	5	2 <sup>nd</sup>
4	18	6 <sup>th</sup>
5	22	5 <sup>th</sup>
6	23	1 <sup>st</sup>
7	20	7 <sup>th</sup>

Prototype on the basis of ranking

**Plate-1****Plate-2**



**Plate-3**



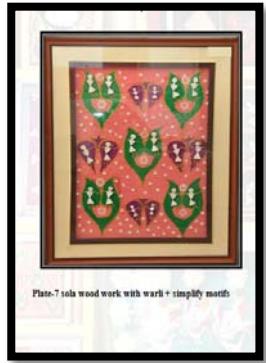
**Plate-4**



**Plate-5**



**Plate-6**



**Plate-7**

## Summary and Conclusion

The wall panel design by sola wood, embellished with different technique like mirror, embroidery, cut stone, dabka, pearls, beading , patch work and combination of different motif warli art, geometrical, phulkari embroidery, stylized, floral motif used to attract the consumer's towards the wall panel designing and extend the designing aspect of decorative articles. We can also conclude from this study that sola wood can used for decoration as well as Interior designing purpose. Further study can be also conducted on Laminated work like (laminated room divider, Boaster etc) with sola wood. Sola wood wall

panels designing can also open new dimensions in 3D designing.

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