

Original Research Paper

Economics

A COMPARATIVE STUDY OF BRASS AND BELL METAL

PRODUCTS WITH ITS SUBSTITUTES

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They study makes a comparasion of the cost of Brass and Bell metal products with its substitute and makes a detail study of the available substitute of brass and bell metal product. It also highlights the importance of brass and bell metal products and suggests modernization and product diversification of the craft.

KEYWORI	DS
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Rukha, Baitha, Basundhara, Darpani, Kunda

Introduction

ABSTRACI

India has a history of rich and diverse cultural tradition. Among its diversity, the legacy of India's craft tradition always enjoys a special distinction owing to its beauty, dignity, form, style and aesthetics. Handicrafts in India are not just objects of utility or decoration, it is a part and parcel of the socio-economic and religious life of thousands of the craft communities spread across the country. To write about Indian Handicrafts is almost writing about the country itself. It is so vast, complex and colorful and yet with a simplicity and charm, difficult to attain under comparable conditions. It is well recognized that Indian handicrafts artisans were honored by other communities.

Brass and bell metal industries in Odisha, India are intermingled with social and cultural heritage, geographical background and mode of living. In short, they bear a distinctive mark of the place to which the artisan belongs Brass and bell metal have been the most commonly used metals for the artisans of Odisha. Traditional utensils and fancy articles designed by these artisans are found in every househood of Odia. They are used in temples and houses for religious and other purposes. The flexible brass fish of Ganjam, the cute brass figurine of Khalisahi, the brass and bell metal wares of cuttack, Khurda, Dhenkanal, Jajpur and Kantilo are typical examples of Orissa's metal ware, presenting a syntax of beauty and utility. The fine engravings on brass and bell metal utensils, bronze bangles and pots are important aspects of Odishan art. Artefacts made of metal, particularly brass and metal

find pride of place in the homes of Odisha. Beautiful lamps and lampstands are used during the worship of deities. Ricemeasuring bowls made of brass are used in many homes. The artisans also make elephants and horses from brass and decorate them with intricate designs. Containers of brass for betel-chewers are designed both to be useful and ornamental. There are household articles and utensils made out of brass and bell metal and they are of different shapes and sizes. The brass were of Odisha reveals the high workmanship of the artisans and their flair innovation.

However, these industries have been facing a gradual decline overtime which is sharply contradicting the goal of industrialisation. The reason for this decline may be attributed to many factors such as scarcity of raw materials, lack of marketing consortia and brand image support, lack of support for finance and working capital, lack of infrastructural facilities etc. But one of the most important factor is the availability of substitute products. This traditional craft received a great set-back because of shift of demand for steel, aluminium and plastic products.

This paper makes a comparative study of Brass and Bell metal products with substitute products, one of the most important

factor that cause a shift in demand for steel, aluminium and plastic products that buying of brass and bell metal products becomes costly in comparison with its substitutes.

The following table makes a comparasion of the cost of the Brass and bell metal products with its substitutes.

Comparative cost of the substitute Goods
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Year	Brass	Bell	Steel	Aluminium	Plastic	Fibre
	per kg.	metal	per kg.	per kg.	per kg.	per kg.
		per kg				
1990-95	130	230	90	120	30 and	40 and
					above	above
					based	based
					on	on
					quality	quality
1995-2000	160	275	125	160	40 and	50 and
					above	above
					based	based
					on	on
					quality	quality
2000-05 2	220	350	150	200	50 and	60 and
					above	above
					based	based
					on	on
					quality	quality
2005-10 3	300	450	180	220	60 and	70and
					above	above
					based	based
					on	on
					quality	quality
2010-15	600	1100	200	250	90 and	100 and
					above	above
					based	based
					on	on
					quality	quality
2016-17	500	1050	220-350	270		120 and
					above	above
					based	based
					on	on
					quality	quality

The above table indicates that the cost of 1 kg material of substitute goods like steel and aluminium in comparison to Brass and Bell metal products is less and the substitute goods like plastic and fibre are sold in the market according to its quality. Similarly per peice, sometimes all the products of plastic and fibre is sold in the market. Consumers are attracted towards these products due to its colour, portability and as these are very light to handle. After use there availability of half cost to aluminium and steel when these are again sold in the market, as a result of which people of our state have diverted their minds easily to use such products. The position of the substitute products in comparison to Brass and Bell metal are as follows:

Position of substitute products in comparison to Brass and Bell metal.

Products	Positions
Steel	1st
Aluminium	2nd
Silver	Зrd
Plastic	4th
Fibre	5th
Brass	6th
Bell metal	7th

(Source : Field Survey)

The above table shows that there is a preference for steel and aluminium products in comparison to Brass and Bell metal and in some extent also plastic and fibre among the consumers in their daily uses.

The following table explain the availability of similar products of substitute Goods of Brass and Bell Metal product.

Brass and Bell Metal products and Similar Products of Substitute Goods

Products of Brass	Substitute Goods for the
and Bell metal	same product
Big Honda (Brass)	Topia of Aluminium
Press Gara (Brass)	Gara of Aluminium
Rukha (Brass)	Rukha of Aluminium and
	Steel
Baitha (Brass)	Baitha of Aluminium, Steel
	and Plastic
Phula Dala (Brass)	Phula dala (Aluminium and
	Steel)
Puja Thalia (Brass)	Puja Thalia (Steel, Silver)
Thali (Bell Metal)	Tray (Steel, Aluminium &
	Fibre)
Gina, Tatia	Gina (Steel, Aluminium and
	Fibre)
Do Dharia Thali (Brass)	No substitute
Gable Thali	No substitute
Tamba Bata (Brass)	Bata (Steel, Aluminium,
	Plastic and Fibre)
Tamba Basundhara	
(meant for Lord	
Mahadev	Basundhara by steel and
	aluminium
Panchupatri (Brass)	Panchupatri (Steel
	Aluminium)
Abhisekh Patri (Brass)	Abhisekh Patri (Steel and
	Aluminium)
Gomukha Patri (Brass)	Gomukha Patri (Steel and
	Aluminium
Gaya Patri (Brass)	Gaya Patri
	Aluminium)
Nine Khandia Gadu (Brass)	No substitute
(Meant for Lord Bishnu)	
108, 54 and 27 Alati	

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(Brass and Bell metal)	108, 54 & 27 Alati (Steel and		
	Silver)		
Naga, God & Goddess (Brass)	Naga, God		
(01033)	(Steel,		
	Aluminium)		
Darpani, Khatuli,			
Kahali (Brass)	Darpani, Khatuli, Kahali		
	(Steel and Aluminium)		
Chunakhai, Pikadani			
(Brass)	Chunakhai, Pikadani (Steel and Aluminium)		
	and Aluminum		
Glass, Jug, Dhala			
(Bell Metal)	Glass, Jug, Dhala		
Maria Nata	(Aluminium and Steel)		
Masala, Nalua, Dosakha Masal			
(Bell Metal)	Masala, Nalua, Dosakha		
	Masal (Aluminium and Steel)		
Kirati, Dhanusara			
(Brass)	Kirati, Dhanusara		
(meant for Lord Ram	(Aluminium and Steel)		
and Laxman Mukha, Kunda and			
rounded or half	Mukha, Kunda and Rounded		
circle Rukha (Brass)	orhalf circle Rukha		
	(Aluminium and Steel)		
Pana Peda, Screws	Pana peda, Screws, pins and		
pins and other	other machinery parts		
machinery parts (Brass)	(Silver, steel and Aluminium)		
Tukuna, Atika, Piture (Brass)	Tukuna, Atika, piture (Aluminium)		
Mana (meant for	Mana (Aluminium & Steel)		
Goddess Laxmi (Brass)			
Ghanta, Bells (Bell	No substitute		
metal)			
Gini Jhanja (Bell metal)	No substitute		
Tasala, Lota,	Tasala, Lota, Danki		
Danki, Chatu, Palam Palam Jali (Brass)	Chatu, Palam Jali Chakra, Kalas (Aluminium		
Chakra, Kalas (Brass)	Steel)		
Bowl, basin, Ladle	Bowl, Basin, ladle,		
(Brass)	(Aluminium and Steel)		
Bullet, Cashket (Brass)	Bullet, Cashket (Steel and		
	Aluminium)		
Weeding Hook, Razor scisors (Brass)	Wedding Hook, Razor Scisors (Aluminium and		
2012/012/01222/	Scisors (Aluminium and Steel)		
Spiton, Thurible,	Spiton, Thurible, Lock		
Lock and Pad lock	and Pad lock (Steel)		
(Brass)			
Pipe stack, Jingling	pipestach, Jinglings bells		
bells, keys (brass)	keys (steel and Aluminium)		

(Source : Field Survery)

From the above table we found that there is no substitute for Gable Thali and Nine Khandia Gadu of Brass and Ghanta, Bells, Gini, Jhanja of Bell Metal products and in all other cases there are availabilities of substitute goods of steel and aluminium.

Besides, bell metal products are traditionally used as cooking ware and kitchen wares. The reason is that this alloy has several medicinal properties which the food or water kept in them acquires. There medicinal properties are derived from copper and Zinc which are dominant by present in the bell metal alloy but not in its substitute products. It is believed that regular use of these bell metal products have long term effects towards preventing and relieving several ailments like gastric, diabetics, allergies, etc. Brass and bell metal industries in india are intermingled with social and cultural heritage. Every family tries to maintain those articles as marks of their cultural identity. They are mostly used in religious and rituals and marriage ceremonies. Bell and brass metal products are given to brides as endowments. There is a saying among the people that "Kansa Dhana Nida Dhana, Godhana Nidhana". This saying implies that these products act as a store of value for the people. In the villages and in terms of the rural economy, these articles can easily be pawned for borrowing money at times of need. The old, broken and used items can always be exchanged at reduced rate for new items can always be exchanged at reduced rate for new items from metal ware vendor even sometimes for cash.

The problems and prospects of brass and bell metal industry is an integral part of our cultural heritage and directly related to the economic activities of the rural people. There is no doubt that with the modernization and product diversification and training of artisans brass and bell metal industry shall be a milestone for a glorious future of the handicrafts in India. In the context of rapid changes and increasing competition, cottage industries would need improved access and better skills to utilize information for their successful adaptations.