PROJECT REPORT

Of

WOOD CARVING

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding Wood Carving.

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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		PROJECT AT A	GLANCE		
1	Name of the Entreprenuer		xxxxxxxxxx		
2	Constitution (legal Status)		xxxxxxxxx		
3	Father / Spouse Name		xxxxxxxxxxx		
4	Unit Address :		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
			District : Pin: Mobile	XXXXXXXX XXXXXXXX XXXXXXXX	State: xxxxxxxxxx
5	Product and By Product	:	WOOD CARVING PRODUCTS(PHOTO FRAMES)		
6	Name of the project $\ /\ $ business activity proposed :		WOOD CARVING UNIT		
7	Cost of Project	:	Rs.24.43 Lakhs		
8	Means of Finance Term Loan Own Capital Working Capital		Rs.19 Lakhs Rs.2.43 Lakhs Rs.3 Lakhs		
9	Debt Service Coverage Ratio	:	2.75		
10	Pay Back Period	:	5	Years	
11	Project Implementation Period	:	5-6	Months	
12	Break Even Point	:	23%		
13	Employment	:	7	Persons	
14	Power Requirement	:	40.00	HP	
15	Major Raw materials	:	Natural wood, MDF, Paint,	Thinner, Sealer	
16	Estimated Annual Sales Turnover (Max Capacity)	:	81.69	Lakhs	
17	Detailed Cost of Project & Means of Finance				
	COST OF PROJECT		Particulars Land (1200-1500 sqft.) Plant & Machinery Furniture & Fixtures Working Capital Total	(Rs. In Lakhs) Amount Own/Rented 20.10 1.00 3.33 24.43	
	MEANS OF FINANCE		Particulars Own Contribution	Amount 2 43	

Particulars	Amount
Own Contribution	2.43
Working Capital(Finance)	3.00
Term Loan	19.00
Total	24.43

WOOD CARVING

Introduction: Wood carving is a form of woodworking by means of a cutting tool (knife) in one hand or a chisel by two hands or with one hand on a chisel and one hand on a mallet, resulting in a wooden figure or figurine, or in the sculptural ornamentation of a wooden object. The phrase may also refer to the finished product, from individual sculptures to hand-worked mouldings composing part of a tracery. The making of sculpture in wood has been extremely widely practised, but survives much less well than the other main materials such as stone and bronze, as it is vulnerable to decay, insect damage, and fire. It therefore forms an important hidden element in the art history of many cultures.[1] Outdoor wood sculptures do not last long in most parts of the world, so it is still unknown how the totem pole tradition developed. Many of the most important sculptures of China and Japan, in particular, are in wood, and so are the great majority of African sculpture and that of Oceania and other regions. Wood is light and can take very fine detail so it is highly suitable for masks and other sculpture intended to be worn or carried. It is also much easier to work on than stone.



History of wood carving: Wood carvingis one of the oldest arts of humankind. Wooden spears from the Middle Paleolithic, such as the Clacton Spear, reveal how humans have engaged in utilitarian woodwork for millennia. Indeed, the beginnings of the craft go so far back that, at least where timber is present, the use of wood exists as a universal in human culture as both a means to create or enhance technology and as a medium for artistry. The North American Indian carves his wooden fish-hook or his pipe stem just as the Polynesian works patterns on his paddle. The native of Guyana decorates his cassava grater with a well-conceived scheme of incised scrolls, while the native of Loango Bay distorts his spoon with a design of figures standing up in full relief carrying a hammock. Wood carving is also present in architecture.

Types of wood carving: Different types of wood carving techniques are as follows:

- 1. **Chip Carving:** Chip carving is also known as Kerbschnitt to the Germanpeople. This refers to the type of wood carving where the use of chisels is encouraged. The aim of the chisels is to remove or detach small chips of the materials that are to be carved. The material that is usually worked on is a surface and usually is in a single piece.
- 2. **Relief Craving:** This type of wood carving is usually done by carving figures into a panel of wood which is usually flat. The figures which are carved into it would then take up a slightly projected shape from the background which it has been carved into. There are two major categories of relief carving. They include the high relief carving and the medium relief carving.
- 3. <u>Chainsaw Carving:</u> This type of wood carving is the fastest growing art in the world. This is due to the fact that it combines beautiful art with the use of modern technology. This combination usually the key to amazing carvings.
- 4. **Treen Carving:** This type of carving refers to the carving of household items with wood. However, it is important to note that most Treen

- carving would not include the likes of household furniture like chairs and cabinets.
- 5. Whittling: The act of whittling most times simply refers to using a tool to carve out figures or shapes from wood. The tool which is normally used is a knife or a chisel. It is however normally done with a small knife rather a long knife as this is much more effective. These knives would usually be made with big handles which would allow the users to have a firm grip.

Types and characteristics of wood: Methods and styles of wood carving include chip carving, relief carving, and Scandinavian flat-plane. Both softwoods and hardwoods are used, principally oak, mahogany, walnut, elm, limewood, chestnut, ebony, boxwood, cedar, cypress, olive, teak and pine. Wood has various advantages, because of its fibrous strength, it can be carved more thinly and precisely than stone or animal bone. For large compositions, two or more pieces of wood may be carved then joined. Softwoods are easier to shape, but less durable. No wood is as durable, weatherproof or insectimmune as stone, and thus is used mainly for indoor works. Lastly, whatever wood is used, it remains an anisotropic material (its properties differ when measured in different directions), and is strongest in the direction of the grain.

Wood carving Market Potential: Although wood carving tends to be an artistic pursuit, there are practical reasons to create utensils, bowls, and other daily-use items from the medium. Wood is more antibacterial than manmade objects, they won't scratch the coating on non-stick cookware, and simple mineral oils provide care for the product. In the developing world, the wood carving industry contributes a significant income for households. The wood carving industry in India provides \$65 million worth of revenues to the local economy each year. In Saharanpur, there are 50,000 people employed as wood carvers.

Machinery & equipments: Major machines & equipments are:

- **1. Wood Chemical Treatment Plant:** It is used for the long life preservation of wood, so that wood will remain safe from bacterial & fungal degradation.
- **2. Wood seasoning plant & boiler:** It is used for conditioning and drying of wood.
- 3. Band saw machine: It's used to cut wood blocks as per requirement.
- **4. Planer machine:** It is used to plain the surface of wood.
- **5. Belt sander machine:** It's used for finishing of product.
- **6. Buffing machine:** It's used for polishing surfaces.
- **7. Wood Lathe machine:** It's used to provide shape to wood by tools.
- **8. Tools:** Chip carving knife, Palm tools, Chain saw, Drill press, etc.

Cost of Machines:

Name	Cost(Rs.)
Wood Chemical treatment Plant	350000
Seasoning machine	300000
Planer machine	550000
Joining machine	200000
Buffing machine	50000
Belt sander machine	150000
Wood Lathe machine	200000
Band saw machine	200000
Other tools & equipments	10000

Raw material: Basic raw material requirements are as follows:

S no.	Name	Cost
1.	Natural wood	Rs. 8 per kg
2.	MDF	Rs. 30 per sqft.
3.	Paint	Rs. 200 per kg
4.	Thinner	Rs 70 per kg
5.	Sealer	Rs. 150 per kg

Assuming raw material cost per piece to be 80 Rs. and selling price to be 150 Rs.

Manufacturing process:

- First of all design is prepared according to the type of product a person wants to prepare & wood is selected according to design.
- Soft wood is used for the carving of complicated designs, which is
 mostly used for the preparation of decorative items. On the other hand,
 hard wood is used for the preparation of furniture and other household
 items.
- In 20% wood MDF (medium density fibre) is attached according to the design & cutting is done according to the shape of the product.
- Then cutting and carving is done according to the design of products and Then all wooden parts are joined together.
- After joining of parts accessories can be added in the product according to the demand of the client.
- Then sealing and painting work is done.
- Final checking of the product.

<u>Area:</u>

The industrial setup requires space for Inventory, workshop or manufacturing area, space for power supply utilities and auxiliary like Generator setup. Also some of the area of building is required for office staff facilities, documentation, office furniture, etc. Thus, the approximate total area required for complete industrial setup is 1200 to 1500Sqft.

Power Requirement – The power consumption required to run all the machinery could be approximated as 40 hp.

Manpower Requirement - There are requirement of skilled machine operators to run the machine set. Experience quality engineers are required for desired quality control. Some helpers are also required to transfer the material from one work station to other. Office staffs are required to maintain the documentation. The approximate manpower required is 7 including 1 Plant operator, 1 unskilled worker, 1 Helper and 1 security Guard. 3 Skilled worker including Accountant, Manager and sales personal each.

Approvals & Registration Requirement:

Basic registration required in this project:

- GST Registration
- Udyog Aadhar Registration (Optional)
- Choice of a Brand Name of the product and secure the name with Trademark if require

Bank Term Loan: Rate of Interest is assumed to be at 11%

Depreciation: Depreciation has been calculated as per the Provisions of Income Tax Act, 1961

Implementation Schedule:

S No.	Activity	Time required	
1.	Acquisition of premises	1-2 Months	
2.	Procurement & installation of Plant & Machinery	1-2 Months	
3.	Arrangement of Finance	1.5-2 Months	
4.	Requirement of required Manpower	1 Month	
5.	Commercial Trial Runs	1 Month	
	Total time Required (some activities shall run	5-6 Months	
	concurrently)		

FINANCIALS

PROJECTED CASH FLOW STA	TENTENT			
PARTICULARS	I	II	III	IV
SOURCES OF FUND				
Own Contribution	2.43			
Reserve & Surplus	5.43	8.73	11.88	15.23
Depriciation & Exp. W/off	3.43	2.65	2.26	1.92
Increase In Cash Credit	3.00	2.03	2.20	1.92
Increase In Term Loan	19.00	_	_	_
Increase in Creditors	0.72	0.13	0.14	0.15
TOTAL:	33.70	11.51	14.28	17.30
APPLICATION OF FUND				
Increase in Fixed Assets	21.10	-	-	-
Increase in Stock	1.66	0.29	0.32	0.34
Increase in Debtors	2.96	0.63	0.58	0.62
Repayment of Term Loan	2.11	4.22	4.22	4.22
Taxation	0.81	1.31	1.78	2.28
Drawings	4.00	4.50	6.00	8.00
TOTAL:	32.64	10.96	12.90	15.46
	-	1.05	1.61	2.99
Opening Cash & Bank Balance	+			
Opening Cash & Bank Balance Add : Surplus	1.05	0.55	1.38	1.84
	1.05	0.55	1.38	1.84

PROJECTED BALANCE SHEET	1		1	T	
PARTICULARS	I	П	III	IV	v
SOURCES OF FUND					
Capital Account					
Opening Balance	-	3.05	5.97	10.06	15.01
Add: Additions	2.43	-	-	-	-
Add: Net Profit	4.62	7.42	10.10	12.94	16.07
Less: Drawings	4.00	4.50	6.00	8.00	10.00
Closing Balance	3.05	5.97	10.06	15.01	21.08
CC Limit	3.00	3.00	3.00	3.00	3.00
Term Loan	16.89	12.67	8.44	4.22	-
Sundry Creditors	0.72	0.85	0.99	1.14	1.30
TOTAL:	23.66	22.48	22.50	23.37	25.38
APPLICATION OF FUND					
Fixed Assets (Gross)	21.10	21.10	21.10	21.10	21.10
Gross Dep.	3.12	5.77	8.03	9.95	11.59
Net Fixed Assets	17.99	15.33	13.07	11.15	9.51
Current Assets					
Sundry Debtors	2.96	3.59	4.17	4.79	5.45
Stock in Hand	1.66	1.96	2.27	2.61	2.97
Cash and Bank	1.05	1.61	2.99	4.82	7.45
	23.66	22.48	22.50	23.37	25.38
TOTAL:					

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PROJECTED PROFITABILITY STAT	EMENT				
PARTICULARS	I	II	III	IV	v
A) SALES					
Gross Sale	44.37	53.82	62.51	71.80	81.69
Total (A)	44.37	53.82	62.51	71.80	81.69
B) COST OF SALES					
Raw Material Consumed	21.60	25.50	29.70	34.20	39.00
Elecricity Expenses	2.66	2.95	3.25	3.55	3.84
Repair & Maintenance	1.77	2.15	2.50	2.87	3.27
Labour & Wages	4.03	4.44	4.92	5.51	6.18
Depreciation	3.12	2.65	2.26	1.92	1.64
Cost of Production	33.18	37.70	42.63	48.06	53.92
Add Ononing Stock MATD		1.20	1 52	1 70	2.04
Add: Opening Stock/WIP Less: Closing Stock/WIP	1.30	1.30 1.53	1.53 1.78	1.78 2.04	2.04
Less. Closing Stock/WII	1.30	1.55	1.76	2.04	2.32
Cost of Sales (B)	31.88	37.47	42.39	47.79	53.64
C) GROSS PROFIT (A-B)	12.49	16.35	20.12	24.01	28.05
c, eness menn (in b)	28.15%	30.39%	32.19%	33.44%	34.33%
D) Bank Interest (Term Loan)	2.06	1.68	1.22	0.75	0.29
ii) Interest On Working Capital	0.33	0.33	0.33	0.33	0.33
E) Salary to Staff	3.78	4.54	5.44	6.26	6.89
F) Selling & Adm Expenses Exp.	0.89	1.08	1.25	1.44	1.63
TOTAL (D+E)	7.06	7.63	8.24	8.78	9.14
H) NET PROFIT	5.43	8.73	11.88	15.23	18.91
	12.2%	16.2%	19.0%	21.2%	23.1%
I) Taxation	0.81	1.31	1.78	2.28	2.84
J) PROFIT (After Tax)	4.62	7.42	10.10	12.94	16.07
Raw Material Consumed	Capacity	Rate	Amount (Rs.)		
Naw Material Consumed	Utilisation	Tuit	mount (NS.)		
I	45%	80.00	21.60		
П	50%	85.00			
Ш	55%	90.00	29.70		
IV	60%	95.00	34.20		
V	65%	100.00	39.00		

COMPUTATION OF MAKING OF WOOD CARVING			
Item to be Manufactured Wood carving(Photo frames)			
Manufacturing Capacity per day		200	wooden photo frames
No. of Working Hour		8	
No of Working Days per month		25	
No. of Working Day per annum		300	
Total Production per Annum		60,000	wooden photo frames
Total Production per Annum		60,000	wooden photo frames
			WOOD CARVING
			PRODUCTS(PHOTO
Year		Capacity	FRAMES)
		Utilisation	
I		45%	27,000.00
II		50%	30,000.00
III		55%	33,000.00
IV		60%	36,000.00
V		65%	39,000.00
	·		· · · · · · · · · · · · · · · · · · ·

COMPUTATION OF SALE					
Particulars	I	II	III	IV	V
Op Stock	-	900.00	1,000.00	1,100.00	1,200.00
Production	27,000.00	30,000.00	33,000.00	36,000.00	39,000.00
	27,000.00	30,900.00	34,000.00	37,100.00	40,200.00
Less : Closing Stock(10 Days)	900.00	1,000.00	1,100.00	1,200.00	1,300.00
Net Sale	26,100.00	29,900.00	32,900.00	35,900.00	38,900.00
Sale Price per piece	170.00	180.00	190.00	200.00	210.00
Sale (in Lacs)	44.37	53.82	62.51	71.80	81.69

PARTICULARS	I	II	III	IV	\mathbf{v}
Finished Goods					
(10 Days requirement)	1.30	1.53	1.78	2.04	2.3
Raw Material					
(5 Days requirement)	0.36	0.43	0.50	0.57	0.6
Closing Stock	1.66	1.96	2.27	2.61	2.9

COMPUTATION OF WORKING CAPI	TAL REQUIREMENT		
Particulars	Amount	Margin(10%)	Net
			Amount
Stock in Hand	1.66		
Less:			
Sundry Creditors	0.72		
Paid Stock	0.94	0.09	0.85
Sundry Debtors	2.96	0.30	2.66
Working Capital Requirement			3.51
Margin			0.39
MPBF			3.51
Working Capital Demand			3.00

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Plant Operator	10,000.00	1	10,000.00
Unskilled Worker	8,000.00	1	8,000.00
Helper	8,000.00	1	8,000.00
Security Guard	6,000.00	1	6,000.00
			32,000.00
Add: 5% Fringe Benefit			1,600.00
Total Labour Cost Per Month			33,600.00
Total Labour Cost for the year (In Rs. Lakhs	s)	4	4.03

Total Labour Cost for the year (In Rs. La	kns)		4	4.03
BREAK UP OF SALARY				
Particulars		Salary	No of	Total
		Per Month	Employees	Salary
Manager		12,000.00	1	12,000.00
Accountant cum store keeper		10,000.00	1	10,000.00
Sales	·	8,000.00	1	8,000.00

30,000.00

1,500.00

31,500.00

3.78

3

Total Salary Per Month

Add: 5% Fringe Benefit

Total Salary for the month

Total Salary for the year (In Rs. Lakhs)

COMPUTATION OF DEPRECIA	ATION			
Description	Land	Plant & Machinery	Furniture	TOTAL
Rate of Depreciation		15.00%	10.00%	
Opening Balance	Leased	-	-	-
Addition	-	20.10	1.00	21.1
	-	20.10	1.00	21.1
		-	-	
TOTAL		20.10	1.00	21.1
Less : Depreciation	-	3.02	0.10	3.1
WDV at end of Ist year	-	17.09	0.90	17.9
Additions During The Year	-	-	-	-
	-	17.09	0.90	17.9
Less : Depreciation	-	2.56	0.09	2.6
WDV at end of IInd Year	_	14.52	0.81	15.3
Additions During The Year	_	-	-	-
	_	14.52	0.81	15.3
Less : Depreciation	_	2.18	0.08	2.2
WDV at end of IIIrd year	_	12.34	0.73	13.0
Additions During The Year	-	-	-	_
	-	12.34	0.73	13.0
Less : Depreciation	-	1.85	0.07	1.9
WDV at end of IV year	-	10.49	0.66	11.1
Additions During The Year	-	-	-	-
· ·	-	10.49	0.66	11.1
Less : Depreciation	-	1.57	0.07	1.6
WDV at end of Vth year	_	8.92	0.59	9.5

<u>KEPAYMEN</u>	T SCHEDULE OF TERM	LOAN	-			11.0%	
Year	Particulars	Amount	Addition	Total	Interest	Repayment	Cl Balance
I	Opening Balance						
	Ist Quarter	19.00	-	19.00	0.52	-	19.00
	Iind Quarter	19.00	-	19.00	0.52	-	19.00
	IIIrd Quarter	19.00	-	19.00	0.52	1.06	17.94
	Ivth Quarter	17.94	-	17.94	0.49	1.06	16.89
					2.06	2.11	
II	Opening Balance						
	Ist Quarter	16.89	-	16.89	0.46	1.06	15.83
	Iind Quarter	15.83	-	15.83	0.44	1.06	14.78
	IIIrd Quarter	14.78	-	14.78	0.41	1.06	13.72
	Ivth Quarter	13.72		13.72	0.38	1.06	12.67
					1.68	4.22	
III	Opening Balance						
	Ist Quarter	12.67	-	12.67	0.35	1.06	11.61
	Iind Quarter	11.61	-	11.61	0.32	1.06	10.56
	IIIrd Quarter	10.56	-	10.56	0.29	1.06	9.50
	Ivth Quarter	9.50		9.50	0.26	1.06	8.44
					1.22	4.22	
IV	Opening Balance						
	Ist Quarter	8.44	-	8.44	0.23	1.06	7.39
	Iind Quarter	7.39	-	7.39	0.20	1.06	6.33
	IIIrd Quarter	6.33	-	6.33	0.17	1.06	5.28
	Ivth Quarter	5.28		5.28	0.15	1.06	4.22
					0.75	4.22	
V	Opening Balance						
	Ist Quarter	4.22	-	4.22	0.12	1.06	3.17
	Iind Quarter	3.17	-	3.17	0.09	1.06	2.11
	IIIrd Quarter	2.11	-	2.11	0.06	1.06	1.06
	Ivth Quarter	1.06		1.06	0.03	1.06	-
					0.29	4.22	

Door to Door Period 60 Months Moratorium Period 6 Months Repayment Period 54 Months

I	II	III	IV	v
7.73	10.07	12.36	14.87	17.71
2.06	1.68	1.22	0.75	0.29
9.79	11.76	13.58	15.62	18.00
+				
2.11	4.22	4.22	4.22	4.22
2.06	1.68	1.22	0.75	0.29
4.17	5.91	5.44	4.98	4.51
2.35	1.99	2.50	3.14	3.99
	7.73 2.06 9.79 2.11 2.06 4.17	7.73 10.07 2.06 1.68 9.79 11.76 2.11 4.22 2.06 1.68 4.17 5.91	7.73 10.07 12.36 2.06 1.68 1.22 9.79 11.76 13.58 2.11 4.22 4.22 2.06 1.68 1.22 4.17 5.91 5.44	7.73 10.07 12.36 14.87 2.06 1.68 1.22 0.75 9.79 11.76 13.58 15.62 2.11 4.22 4.22 4.22 2.06 1.68 1.22 0.75 4.17 5.91 5.44 4.98

2.75

AVERAGE D.S.C.R.

COMPUTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	40	
Load Factor		0.7460	
Electricity Charges	per unit	7.50	
Total Working Days		300	
Electricity Charges			5,37,120.00
Add : Minimim Charges (@ 10%)			
(B) DG set			
No. of Working Days		300	days
No of Working Hours		0.3	Hour per day
Total no of Hour		90	* *
Diesel Consumption per Hour		8	
Total Consumption of Diesel		720	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		0.47	
Add : Lube Cost @15%		0.07	
Total		0.54	
Total cost of Power & Fuel at 100%			5.91
Year	Capacity		Amount
TCai	Capacity		(in Lacs)
			(III Eucs)
I	45%		2.66
II	50%		2.95
III	55%	-	3.25
IV	60%		3.55
V	65%		3.84



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